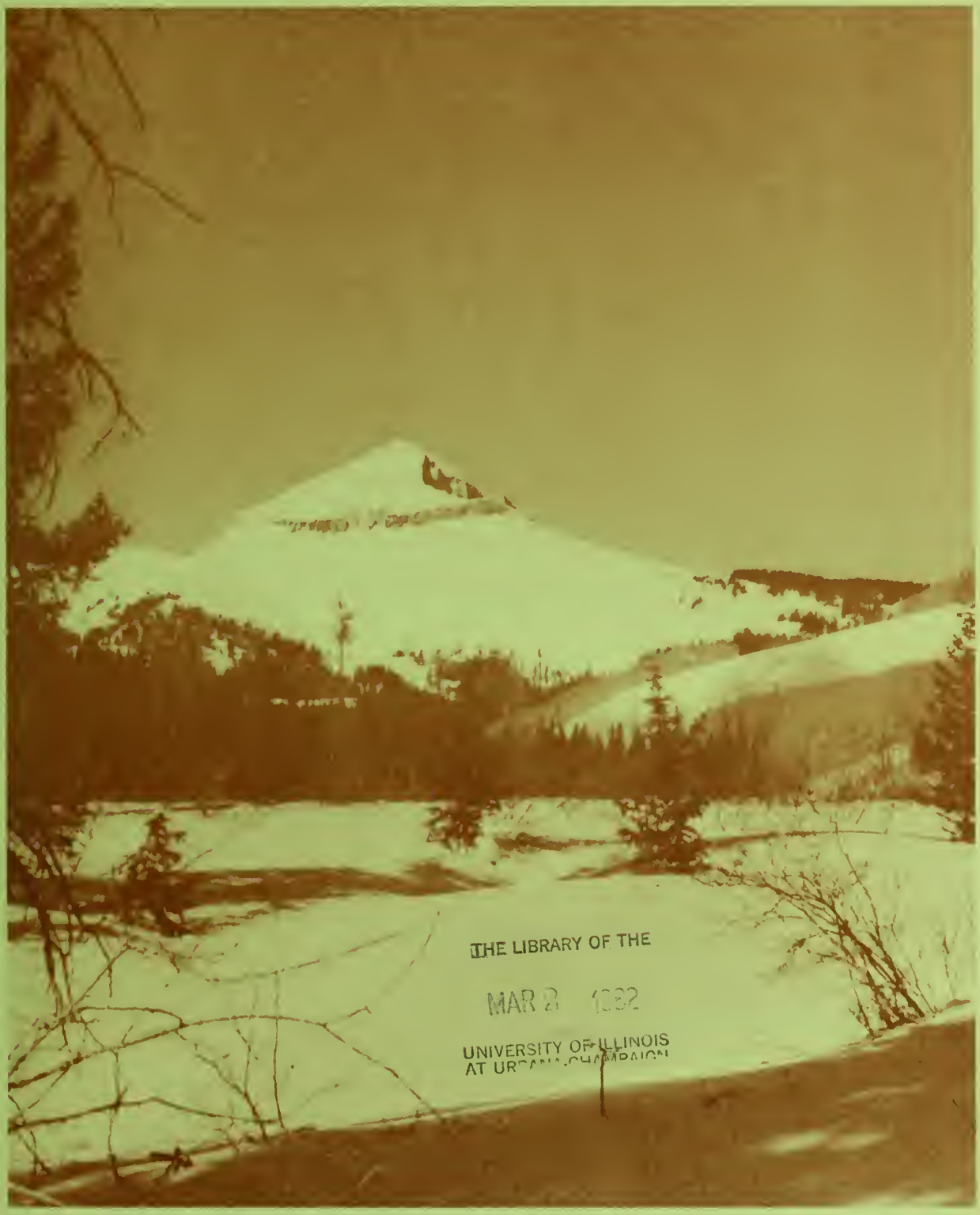
551.573
UN36wi
1982-1983 -

631.8
Ln 36ws

Water Supply Outlook For Idaho



THE LIBRARY OF THE
MAR 2 1982
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
Jan. 1, 1982

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow caurse measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snaw course and sail moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Lone Cone, near Norwood, Colorado, blanketed by its winter mantle of snow.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR JANUARY 1, 1982

The January 1, 1982 snow surveys indicate a near normal to well above normal snowpack throughout the state. The exceptions are the Weiser River drainage which is only 71 percent of average and the Spokane River drainage in northern Idaho which is 79 percent of average. The Priest River in north Idaho and the Beaver-Camas Creek drainage east of Dubois are near normal with 87 percent and 98 percent respectively. All other drainages in the State are above to well above normal ranging from 103 percent on the Clearwater River to 192 percent on the Jordan Creek drainage.

Although late summer conditions were very dry, soil moisture conditions throughout the State appear to be near normal as precipitation across Idaho has been well above normal for both December and the water year which began October 1. December's average was 159 percent of normal with a range from near normal in northern Idaho to over 200 percent in southern Idaho.

For the water year we stand at 150 percent with the distribution across the state similar to December. The precipitation has fallen as snow across Idaho except for the heavy rain which fell in southwestern Idaho around the week end of the 20th.

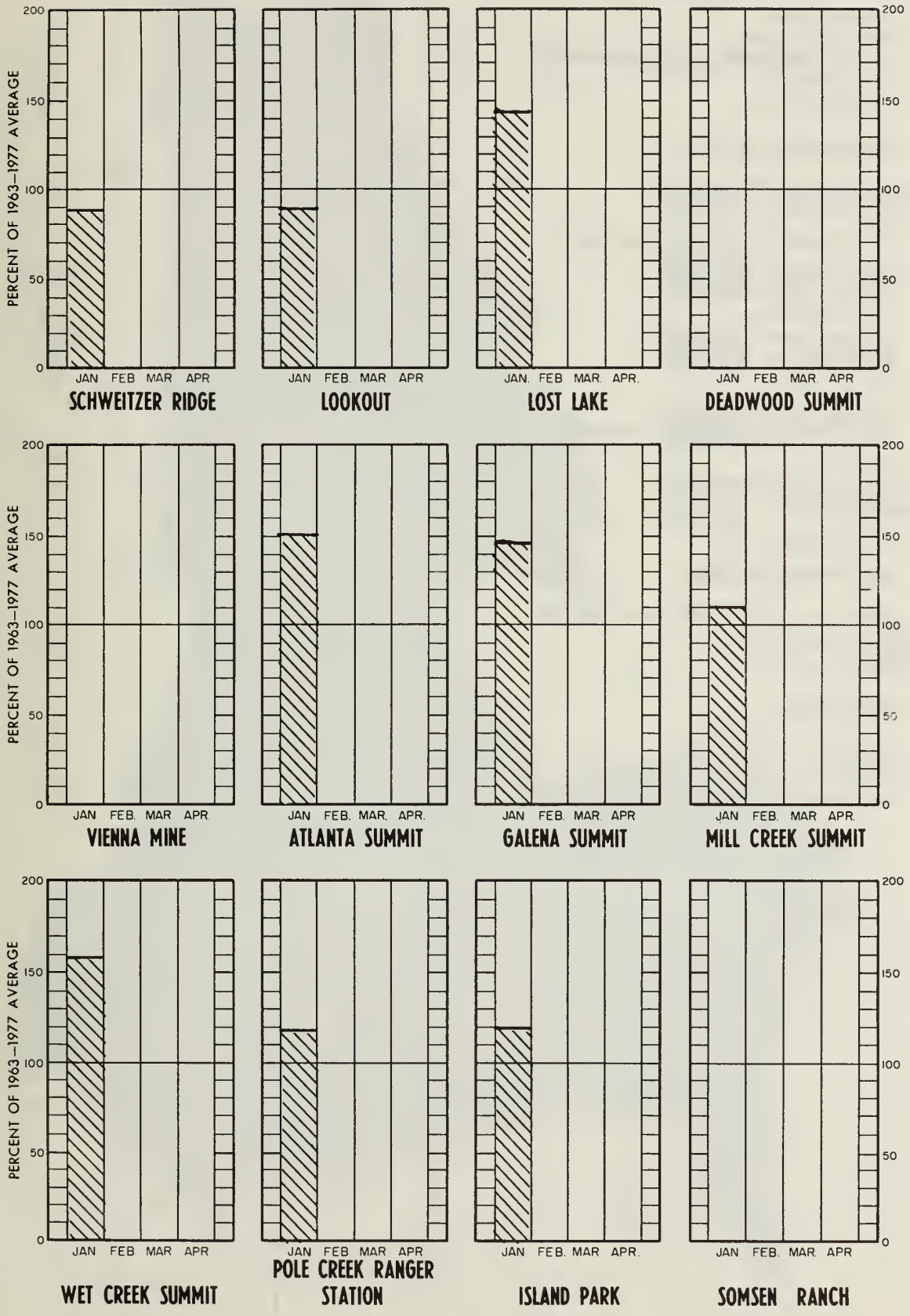
Temperatures across the state were near normal for December. Heavy snow has insulated the ground in most areas, including the mountains and the soil is not frozen or is not frozen very deep.

Currently, reservoir carry over storage is below normal in most reservoirs, ranging from a low of 37 percent of normal in Lucky Peak to a high of 117 percent in Cascade Lake. However, if the present trend continues, most reservoirs should fill and natural flows should hold up well into the summer of 1982.

Due to adverse weather conditions, measurements of some scheduled snow courses were delayed or cancelled.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

JANUARY 1, 1982



COMPARISON of SNOW COVER

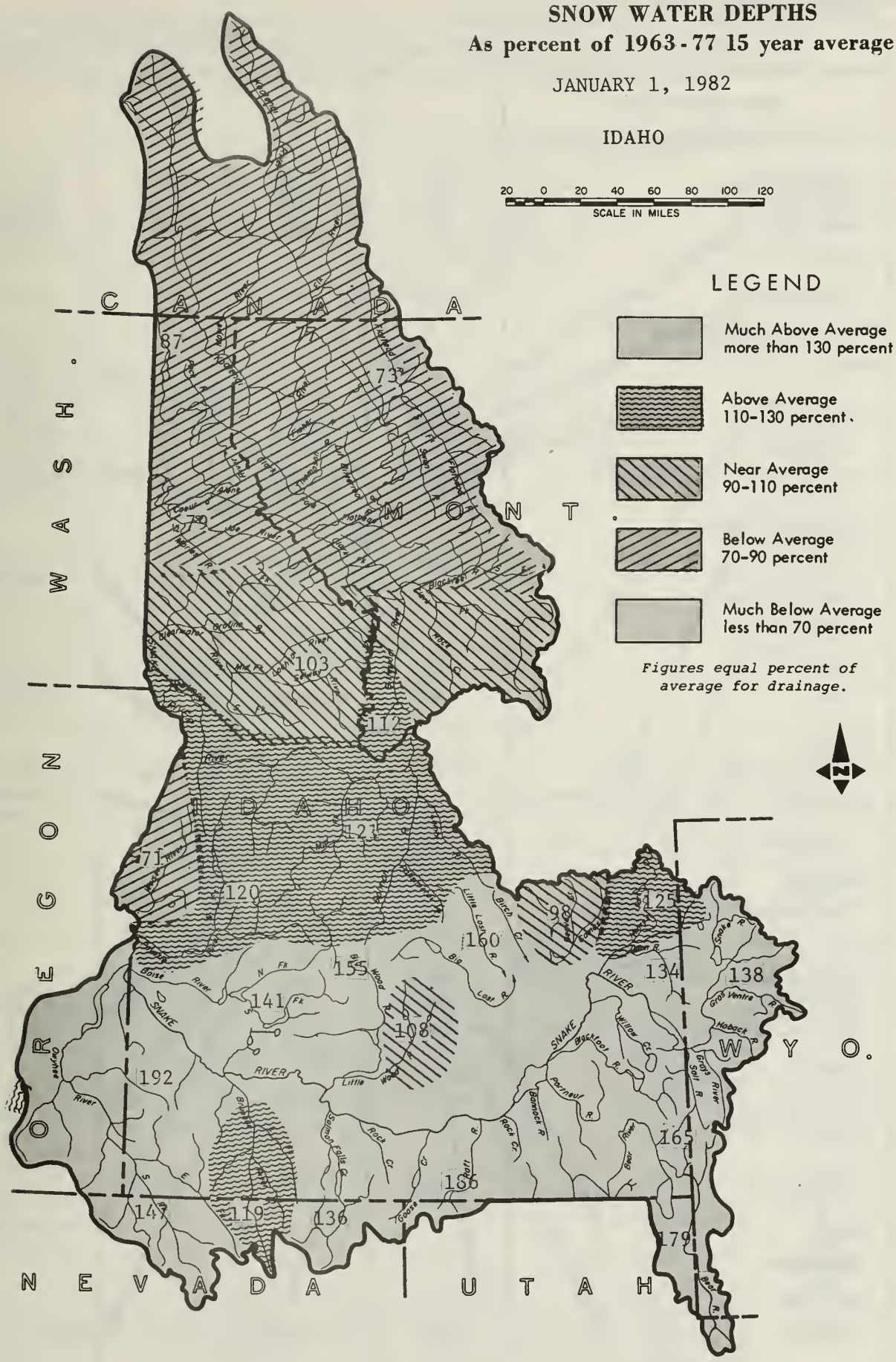
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	18	78	77
Pend Oreille River	64	121	87
Clark Fork River	51	146	94
Flathead River	13	86	73
Priest River	4	109	87
Spokane River	3 - 5	164	79
LOWER SNAKE RIVER BASIN			
Clearwater River	9 - 13	192	103
Salmon River	8	140	121
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5 - 6	144	160
Big Lost River	3	157	--
Little Wood River	4 - 3	126	108
Big Wood River	5 - 8	174	155
Boise River	8 - 9	209	141
Payette River	9	147	120
Weiser River	1	88	71
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	415	186
Salmon Falls Creek	4	264	136
Bruneau River	1	270	119
Owyhee	4	288	147
Jordan Creek	1	333	192
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	15	191	138
Camas-Beaver Creeks	2	101	98
Henrys Fork River	7	158	125
Teton River	3	184	134
GREAT BASIN			
Bear River - Upper	3	393	179
Bear River - Lower	4	380	173
Montpelier Creek	2	386	165
Mink Creek	1	305	136

SNOW WATER DEPTHS

As percent of 1963-77 15 year average

JANUARY 1, 1982

IDAHO



RESERVOIR STORAGE (1,000 Ac. Ft.)

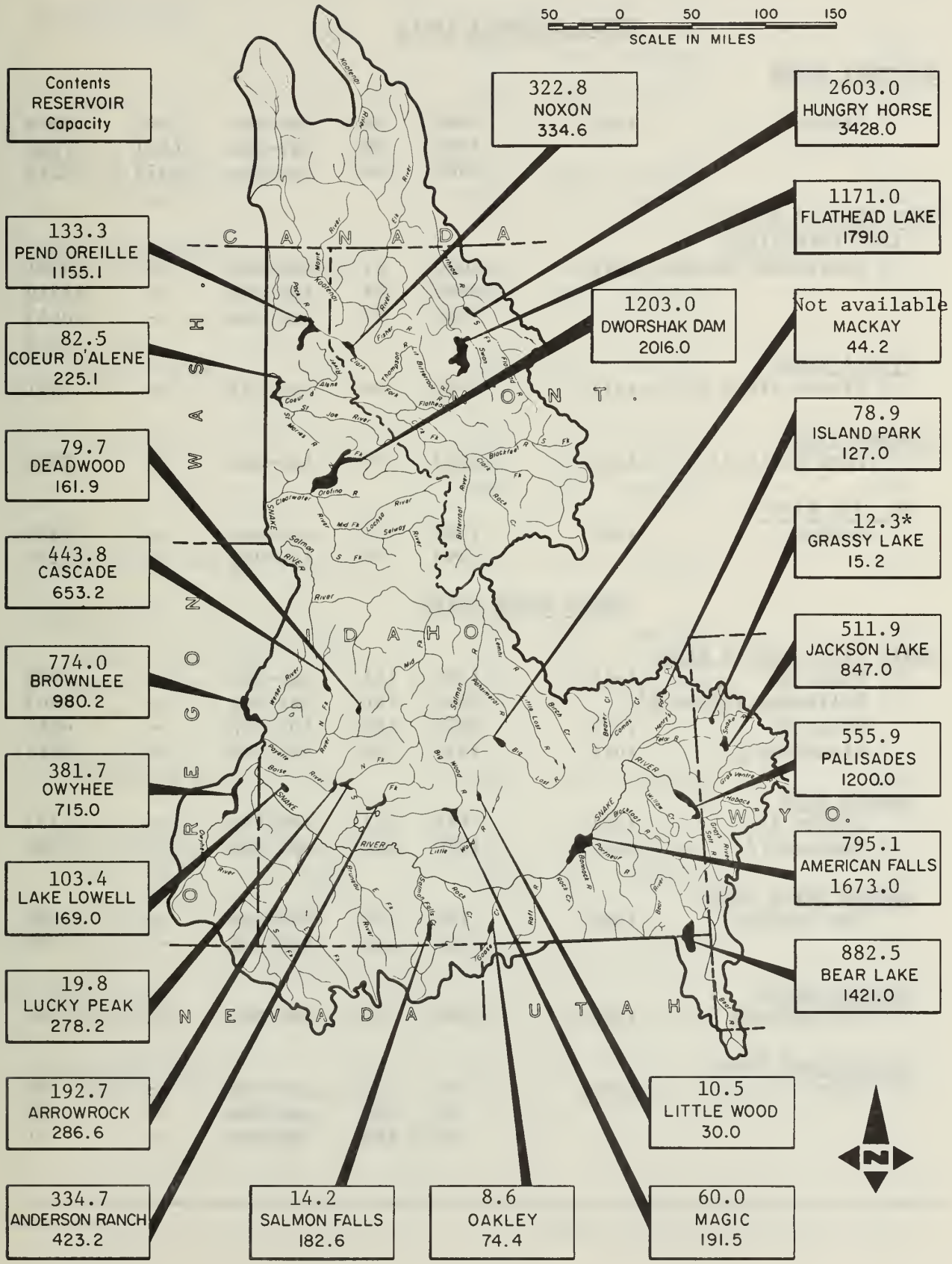
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2603.0	2833.0	2624.0
Flathead	1791.0	1171.0	1408.0	1428.0
Pend Oreille	1155.1	133.3	647.5	331.1
Noxon	334.6	322.8	308.2	318.7
Spokane				
Coeur d'Alene	225.1	82.5	--	129.9
SNAKE BASIN				
Snake				
Jackson Lake	624.4	511.9	545.7	599.7
Palisades	1200.0	555.9	970.2	897.8
American Falls	1673.0	795.1	1153.1	1019.3
Island Park	127.0	78.9	106.2	92.4
Grassy Lake	15.2	*Est. 12.3	12.2	10.1
Brownlee	980.2	774.0	901.7	808.1
Goose-Trapper Creeks				
Oakley	74.4	8.6	25.0	23.5
Salmon Falls Creek				
Salmon Falls	182.6	14.2	51.2	45.7
Big Lost				
Mackay	44.2	Unavailable	36.0	26.7
Big Wood				
Magic	191.5	60.0	104.0	98.4
Little Wood				
Little Wood	30.0	10.5	18.7	14.0
Fish Creek				
Carey Valley	14.4	2.6	4.8	--
Boise				
Anderson Ranch	423.2	334.7	287.6	301.1
Arrowrock	286.6	192.7	148.1	216.8
Lucky Peak	278.2	19.8	223.9	53.1
Lake Lowell (Deer Flat)	169.0	103.4	121.0	116.1
Owyhee				
Owyhee	715.0	381.7	500.8	405.5
Payette				
Cascade	653.2	443.8	451.5	379.0
Deadwood	161.9	79.7	101.6	74.3
Weiser				
Mann Creek	11.1	5.6	4.6	--
Clearwater				
Dworshak	2016.0	1203.0	1343.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	882.5	1059.0	971.8

*Estimated

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1, 1982



* Estimated

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8490	96	Apr-Sep	7941	8858
		7350	96	Apr-Jul	6601	7708
		5900	96	Apr-Jun	4573	6114
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	12000	87	Apr-Sep	--	13781
		10900	87	Apr-Jul	--	12519
		9250	87	Apr-Jun	--	10633
Priest River						
Priest River 1/	(at)	791	94	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	2330	80	Apr-Sep	--	2910
St. Joe River						
Calder	(at)	1050	80	Apr-Sep	--	1309
		990	80	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1300	144	Apr-Sep	--	903
Palisades Inflow 3/		5640	146	Apr-Sep	--	3863
Heise 4/	(nr)	6070	143	Apr-Sep	--	4247
Blackfoot 5/	(nr)	5950	130	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	825	112	Apr-Sep	--	737
Rexburg 7/	(nr)	1670	110	Apr-Sep	--	1534
Salmon Falls Creek						
San Jacinto	(nr)	107	113	Mar-Sep	--	95
		102	113	Mar-Jul	--	90
Bruneau River						
Hot Springs	(nr)	280	112	Mar-Sep	--	251
Little Lost River						
Howe	(nr)	47	104	Apr-Sep	--	45
		27	104	Apr-Jun	--	26
		42.5	104	Apr-Sep	--	41

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Big Lost River						
Howell Ranch	(at)	250	112	Apr-Sep	--	225
		170	112	Apr-Jun	--	154
Mackay 8/	(nr)	225	110	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		415	130	Apr-Sep	--	319
Inflow 9/		430	129	Mar-Jul	--	332
Little Wood River						
Carey 10/	(nr)	111	104	Apr-Sep	--	107
		92	106	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	900	123	Apr-Sep	--	733
		815	121	Apr-Jul	--	676
Boise 11/	(nr)	2000	121	Apr-Sep	--	1656
		1650	121	Apr-Jun	--	1360
		1860	121	Apr-Jul	--	1536
South Fork						
Anderson Dam 12/	(at)	755	121	Apr-Sep	--	622
Owyhee River						
Gold Cr., Nev. 13/	(nr)	25	109	Apr-Jul	--	23
Owyhee, Nev. 13/	(nr)	90	112	Apr-Jul	--	80
Lake Owyhee		489	125	Apr-Sep	--	392
net inflow 14/		814	141	Feb-Jul	--	578
Payette River						
Horseshoe Bend 15/	(nr)	2150	116	Apr-Sep	--	1860
North Fork						
Cascade 16/	(at)	620	110	Apr-Sep	--	564
Banks 16/	(nr)	800	110	Apr-Sep	--	726
Weiser River						
Weiser	(nr)	549	98	Mar-Sep	--	558
Salmon River						
Whitebird	(at)	8050	112	Apr-Sep	--	7196
Clearwater River						
Spalding	(at)	8390	97	Apr-Sep	--	8672

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
GREAT BASIN						
BEAR RIVER						
Harer	(at)	301	91	Apr-Sep	--	332
Montpelier Creek						
Montpelier	(nr)	15	121	Apr-Sep	--	12.4

1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake.
3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades.
5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
8/ Observed flow corrected for storage in Mackay Reservoir.
9/ Combined flow big Wood River nr. Bellevue and Camas Creek nr. Blaine.
10/ Corrected for storage in Little Wood Reservoir.
11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
12/ Corrected for storage in Anderson Ranch Reservoir.
13/ Corrected for storage in Wildhorse Reservoir.
14/ From WPRS records of inflow.
15/ Corrected for storage in Cascade and Deadwood Reservoirs.
16/ Corrected for storage in Cascade Reservoir.
Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME & DRAINAGE		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Above Burke	Coeur d'Alene	4100	12/31	28	5.2	3.0	9.3*
Antelope Ridge	Owyhee	6180	12/30	20	4.3	0.0	--
Atlanta Summit	Boise	7600	1/6	91	23.5	10.1	15.2*
Bad Bear	Boise	4940	12/29	32	5.4	3.7	5.2*
Bear Canyon	Big Lost	7900	1/6	55	12.7	8.2	--
Benton Meadow	Priest	2370	12/30	10	1.2	0.0	2.9
Benton Spring	Priest	4920	12/30	25	5.9	6.3	8.3
Big Creek Summit	Salmon	6580	12/25	64	18.8	12.2	14.7
Big Springs	Henrys Fork	6400	12/31	43	9.4	6.7	7.8
Black Bear (Mt)	Madison	7950	12/28	70	21.8	13.2	17.3
Bogus Basin	Payette	6340	12/29	36	8.5	5.0	9.6
Bogus Basin Road	Boise	5540	12/29	16	2.7	0.0	2.9*
Boulder Creek	Weiser	5440	12/30	43	7.2	8.2	10.2
Breezy Saddle	Clearwater	5010	1/6	62	11.0	6.0	--
Brundage Mountain	Little Salmon	7560	12/28	101	25.0	18.2	18.9*
Camp Creek	Beaver	5780	12/31	19	3.0	3.0	4.8
Cayuse Airstrip	Clearwater	3500	1/6	33	3.8	1.3	5.1*
Copper Basin	Big Lost	7640	1/6	18	4.4	4.4	--
Cozy Cove	Deadwood	5380	1/5	54	10.6	5.6	7.0
Crater Meadows	Clearwater	5960	1/6	81	17.9	11.9	18.3*
Crooked Fork	Lochsa	3610	12/31	27	5.6	2.6	5.1*
Deadline	Salmon Falls	7400	12/30	51	13.1	5.4	8.7*
Deadline South	Salmon Falls	7450	12/30	43	10.7	--	--
Deadwood Airstrip	Deadwood	5360	1/5	50	9.5	6.2	6.3*
Dollarhide Summit	Big Wood	8420	1/6	73	19.6	8.2	12.4*
Elk Butte	Clearwater	5550	1/6	73	13.4	6.0	--
Emigrant Summit	Bear	7390	12/29	59	12.8	4.2	9.4*
Fairview Guard Sta.	Little Lost	6750	12/31	18	3.4	2.0	1.8*
Fish Lake Airstrip	Lochsa	5650	1/6	78	17.0	9.6	16.1*
Forty-nine Meadows	Clearwater	4830	1/6	61	9.8	6.0	--
Freds Mountain (Wy)	Teton	8150	12/31	67	13.8	6.5	8.6*
Galena	Big Wood	7440	12/30	56	12.7	8.6	7.8
Galena Summit	Big Wood	8780	12/30	63	15.2	9.6	10.4
Garfield Ranger Sta.	Little Wood	6560	12/29	17	4.4	5.2	4.1*
Gibbons Pass (Mt)	Bitterroot	7100	12/28	52	11.2	10.5	9.1
Giveout	Montpelier	6860	1/4	40	7.6	2.2	4.8
Goat Creek (Nv)	Salmon Falls	8880	12/29	41	10.2	2.3	7.8*
Graham Ranch	Big Wood	6270	12/30	37	7.1	6.2	5.6
Grassy Lake (Wy)	Henrys Fork	7265	12/30	70	18.0	10.1	14.4
Hemlock Butte	Clearwater	5810	1/6	104	21.4	7.9	20.8*
Hilts Creek	Little Lost	8000	12/30	34	8.2	6.0	--
Howell Canyon	Marsh Creek	7980	12/30	68	19.5	4.7	10.5
Humboldt Gulch	Coeur D'Alene	4250	12/31	25	4.4	--	--
Island Park	Henrys Fork	6290	12/31	40	7.5	6.1	6.2
Jackson Peak	Boise	7070	1/6	73	18.7	11.1	15.1*
Kilgore	Camas Creek	6320	1/2	27	6.1	4.0	4.5
Kruze Meadow	Clearwater	4780	12/30	18	3.1	--	--
Lake Fork	Payette	5290	1/1	36	6.2	4.9	6.5*
Lakeview Ridge (Mt)	Beaverhead	7400	12/30	17	3.4	3.7	5.0
Langford Flat Creek	Salmon Falls	5980	12/30	18	3.3	--	--
Lolo Pass	Lochsa	5240	12/30	49	12.0	6.7	11.5*
Lookout	Coeur d'Alene	5140	12/30	48	12.2	8.0	13.7
Lost Garfield	Little Lost	6600	12/31	15	3.4	2.0	1.6*
Lost Lake	Clearwater	6110	1/6	92	20.1	15.1	--
Lost-Wood Divide	Big Lost	7900	1/6	64	16.8	9.4	--
Magic Mountain	Rock Creek	6880	12/30	43	11.0	5.4	7.5*
Mascot Mine	Big Wood	7780	1/6	49	11.2	6.8	--
Mill Creek Summit	Salmon	8800	12/30	54	14.7	8.6	13.3*
Montpelier Creek	Montpelier	6540	1/4	33	5.9	1.3	3.4
Moonshine	Little Lost	7440	12/31	26	5.6	4.4	4.3*
Moores Creek Summit	Boise	6100	12/29	68	15.6	9.2	13.0
Moose Creek	North Fork Salmon	6200	1/4	49	10.6	7.4	6.9*
Morgan Creek	Salmon	7600	12/29	34	7.7	4.3	2.6*
Mount Baldy	Big Wood	8920	12/31	57	14.8	9.0	8.7*
Mud Flat	Owyhee	5730	12/30	23	5.2	1.5	--
Muldoon	Little Wood	6320	12/29	12	2.7	3.0	3.2*
Pierce Ranger Sta.	Clearwater	3080	1/4	32	4.7	0.0	4.2
Pine Creek Pass	Teton	6810	12/30	44	8.8	4.8	6.9
Pole Creek Ranger Sta.	Jarbidge	8360	12/29	39	10.8	4.0	9.1*
Rock Flat Summit	Payette	5310	12/28	32	6.8	6.0	7.1
Saddle Mountain (Mt)	Bitterroot	7940	12/28	53	12.4	11.8	11.1
Savage Pass	Lochsa	6170	12/31	46	11.6	9.6	10.2*
Sawmill Canyon	Little Lost	7000	12/31	25	5.2	3.5	3.3*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average
Sawtell Mountain	Henrys Fork	8720	12/30	67	20.2	11.8	14.1*
Schweitzer Bowl	Pend Oreille	4800	12/30	46	13.8	10.2	13.0*
Schweitzer Ridge	Pend Oreille	6200	12/30	56	18.0	19.2	20.3*
Secesh Summit	Payette	6520	12/26	63	17.9	13.6	16.6*
Shanghai Summit	Clearwater	4570	1/6	58	10.3	0.0	9.9*
Sherwin	St. Maries	3200	12/31	25	5.2	0.0	5.5*
Soldier Ranger Sta.	Big Wood	5740	1/6	45	8.3	5.3	4.9*
South Mountain	Jordan-Owyhee	6500	12/31	37	10.0	3.0	5.2
State Line	Teton	6660	12/30	37	6.1	4.3	5.9
Stickney Mill	Big Lost	7430	1/6	27	5.3	4.6	--
Swede Peak	Little Wood	7640	12/29	36	9.8	7.1	8.4*
Targhee Pass	Henrys Fork	6980	12/30	29	6.0	3.7	6.2*
Trinity Mountain	Boise	7770	1/6	107	31.6	12.3	15.6*
Twelve Mile Creek (Mt)	Bitterroot	5600	12/29	48	10.7	4.6	8.4
Valley View	Henrys Fork	6680	12/31	27	6.1	4.5	6.4
Vienna Mine	Salmon	8960	1/6	87	24.9	12.3	--
Webb Creek	Clearwater	4720	12/30	20	3.3	--	--
West Branch	Weiser	5560	12/30	46	8.2	9.9	--
Wet Creek Summit	Little Lost	7680	1/4	32	7.0	4.8	4.4*
White Elephant	Henrys Fork	7710	12/30	48	13.1	8.0	8.9*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S.MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation , navigation , mining and industry

"The Conservation of Water begins with the Snow Survey"

551.573
Ln 36 wi

Water Supply Outlook For Idaho

THE LIBRARY OF THE
UNIVERSITY OF ILLINOIS

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
Feb. 1, 1982

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Lone Cone, near Norwood, Colorado, blanketed by its winter mantle of snow.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR FEBRUARY 1, 1982

The February 1 snow survey readings continue to indicate near normal to well above normal snowpack conditions throughout the State with the only exceptions being lower portions of the Kootenai River drainage in northern Idaho which is from 85 to 90 percent of normal and the Beaver-Camas Creek drainage east of Dubois which is 75 to 80 percent of normal. All other drainages range from a low of 94 percent of average on the Spokane and Priest River drainages to a high of 175 percent on the Portneuf.

Precipitation across Idaho continues well above average. The average for the month was 132 percent of normal with a range of 79 percent at Twin Falls to 256 percent at Grace. For the water year the state stands at 144 percent of normal. Most of the precipitation came in the form of snow, although some rain did fall at the lower elevations in Idaho.

Temperatures across the state averaged 3 degrees below normal with a range from normal in the extreme north to 6 degrees below normal at Twin Falls.

Warming trends could result in flooding conditions in some drainages in southern and eastern Idaho due to extremely high snowpack conditions at the lower elevations, particularly in the Portneuf drainage where snowpack conditions below the 6300 foot elevation range from 150 percent to 215 percent of average. Unfrozen soils will help reduce this potenial. However, soil moisture conditions indicate the soils are near capacity and will absorb less than normal runoff.

Although current reservoir storages continue to be below average in most reservoirs, present conditions indicate most reservoirs will fill. Natural flows should also hold up well into the summer months.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

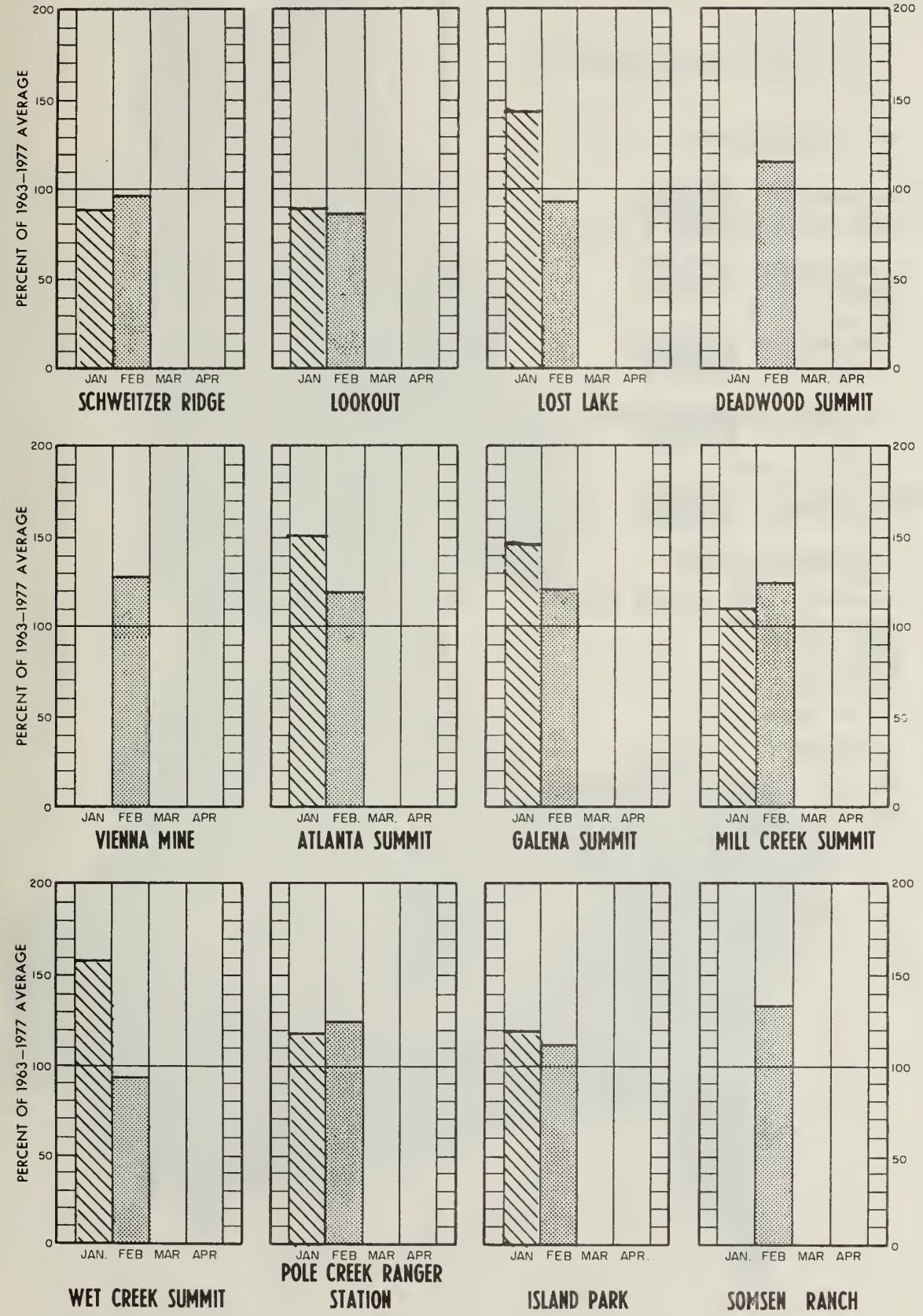
DRAINAGE DIVISION	Winter January 1982		Fall - Winter Oct. 1981 - Jan. 1982	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	3.94	+ .46	11.58	- .22
Flathead	3.47	+ .62	8.50	- .71
Clark Fork	2.82	+ .63	7.55	+ .75
Pend Oreille-Spokane	4.44	+ .02	13.82	- .72
Upper Snake	3.51	+ .88	12.24	+ 4.10
Snake River Plain	1.12	- .11	6.16	+ 2.10
Salmon-Payette-Boise	3.20	- .10	3.49	+ 3.84
Clearwater	4.42	- .32	15.08	+ .20
Owyhee-Malheur	1.02	- .46	8.04	+ 3.33

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

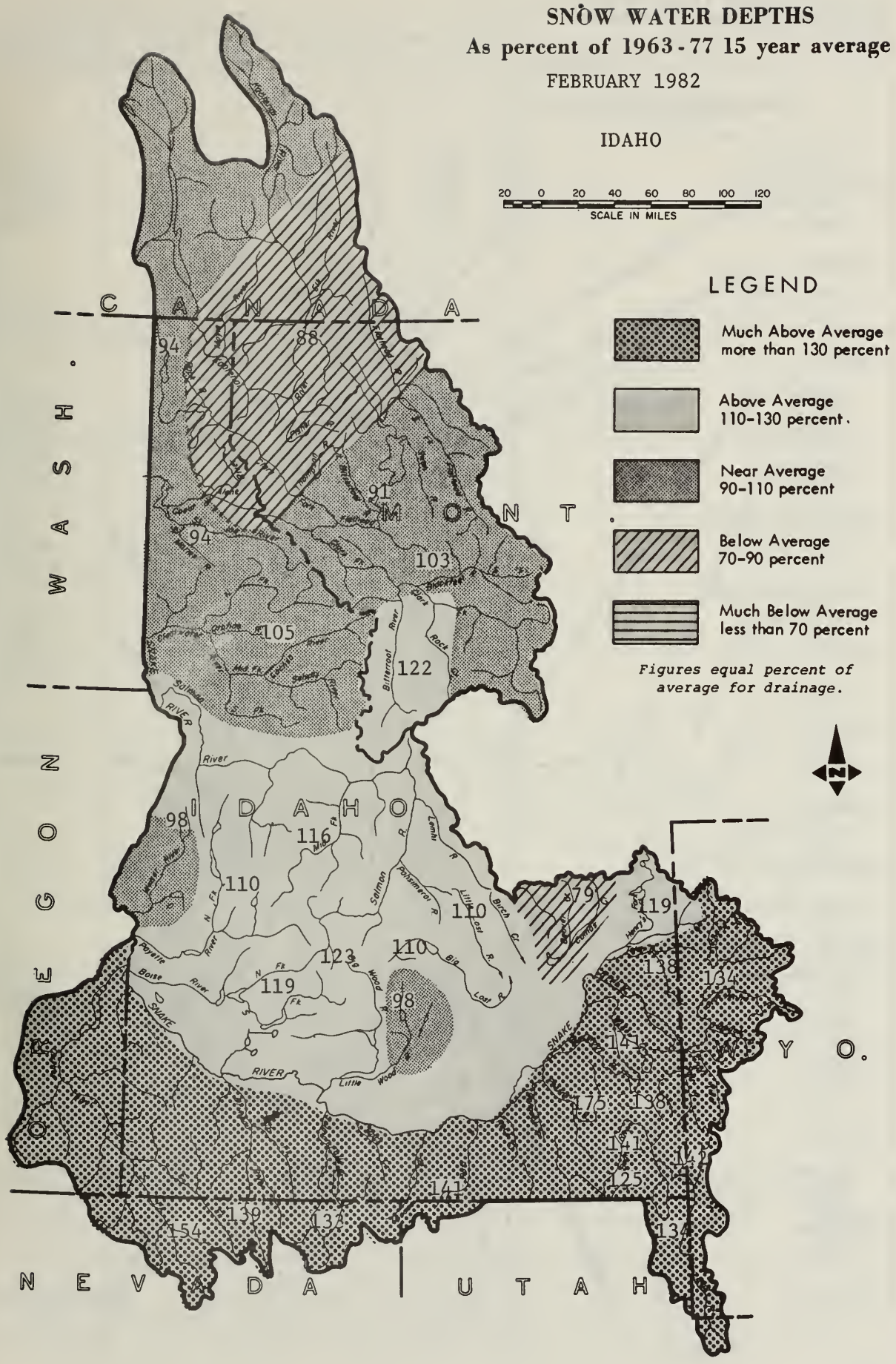
FEBRUARY 1, 1982



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenia River	35	111	88
Pend Oreille River	87	174	97
Clark Fork River	62	214	105
Flathead River	25	135	91
Priest River	4 - 5	173	94
Spokane River	6 - 8	251	94
LOWER SNAKE RIVER BASIN			
Clearwater River	12 - 15	290	105
Salmon River	13 - 15	193	116
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5 - 6	206	110
Big Lost River	4	134	110
Little Wood River	4	129	98
Big Wood River	10 - 11	174	123
Boise River	12 - 14	235	119
Payette River	12 - 14	187	110
Weiser River	1	174	98
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	487	141
Salmon Falls Creek	4	332	133
Bruneau River	3	352	139
Owyhee River	6	373	162
Jordan Creek	2 - 3	365	147
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	30	263	132
Camas-Beaver Creeks	2	124	79
Henrys Fork River	7	201	119
Teton River	7	226	138
Willow Creek	5 - 9	257	141
Blackfoot River	3 - 6	352	138
Portneuf River	4 - 7	356	175
GREAT BASIN			
Bear River - Upper	6	322	134
Bear River - Lower	14	381	136
Montpelier Creek	6	483	146
Mink Creek	2	328	141
Cub River	3	373	125

SNOW WATER DEPTHS
As percent of 1963-77 15 year average
FEBRUARY 1982



RESERVOIR STORAGE (1,000 Ac. Ft.)

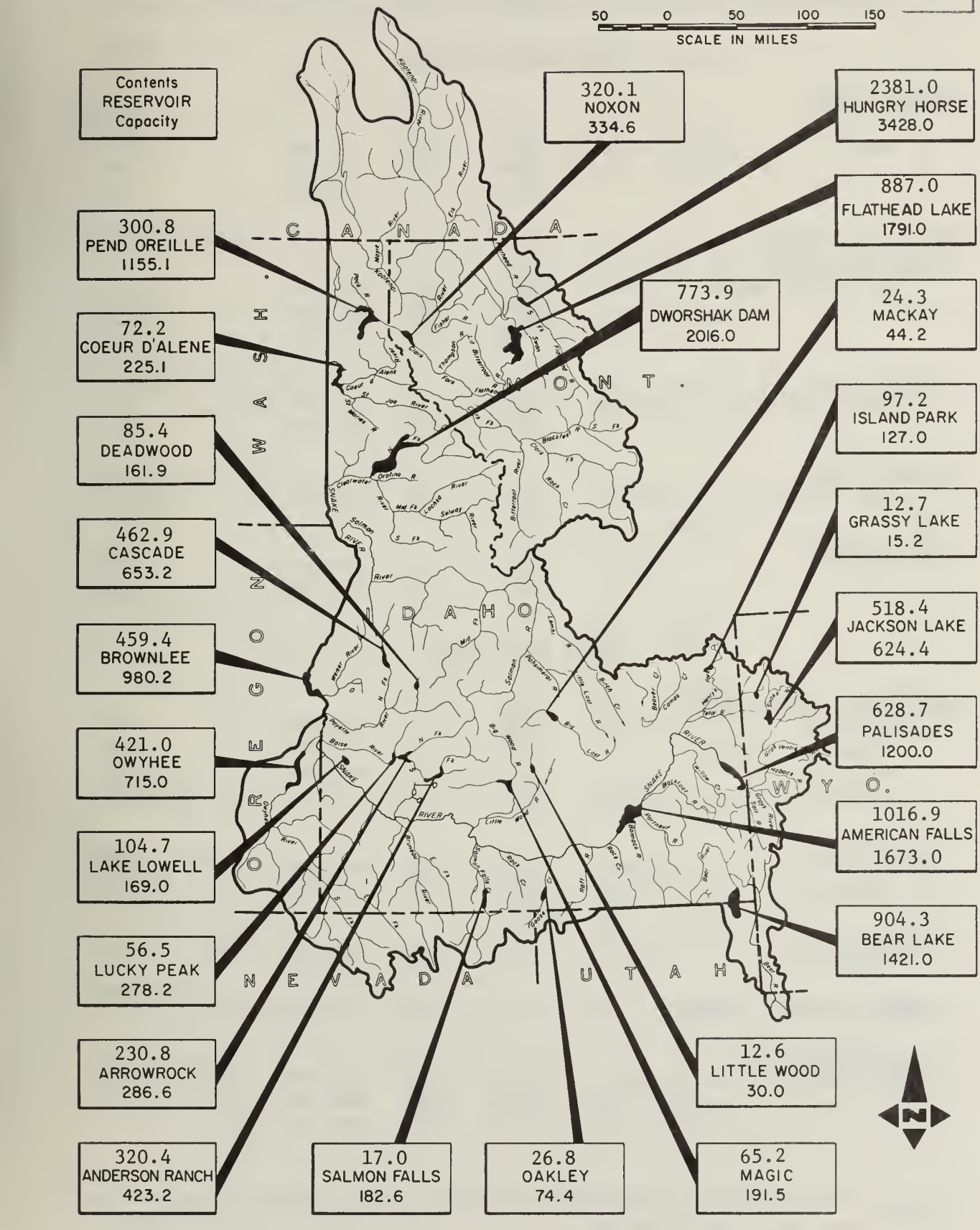
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2381.0	2829.0	2341.0
Flathead	1791.0	887.0	1185.0	1253.3
Pend Oreille	1155.1	300.8	894.9	320.9
Noxon	334.6	320.1	318.6	315.2
Spokane				
Coeur d'Alene	225.1	72.2	180.0	145.3
SNAKE BASIN				
Snake				
Jackson Lake	624.4	518.4	552.5	612.5
Palisades	1200.0	628.7	1052.5	907.8
American Falls	1673.0	1016.9	1302.0	1151.2
Island Park	127.0	97.2	114.5	105.0
Grassy Lake	15.2	12.7	12.2	10.4
Brownlee	980.2	459.4	787.6	674.4
Goose-Trapper Creeks				
Oakley	74.4	26.8	26.8	26.4
Salmon Falls Creek				
Salmon Falls	182.6	17.0	52.9	51.6
Big Lost				
Mackay	44.2	24.3	40.6	30.3
Big Wood				
Magic	191.5	65.2	111.0	103.6
Little Wood				
Little Wood	30.0	12.6	21.0	16.1
Fish Creek				
Carey Valley	14.4	4.4	6.3	--
Boise				
Anderson Ranch	423.2	320.4	287.9	279.0
Arrowrock	286.6	230.8	215.5	254.3
Lucky Peak	278.2	56.5	223.5	85.9
Lake Lowell (Deer Flat)	169.0	104.7	120.9	122.1
Owyhee				
Owyhee	715.0	421.0	525.3	462.5
Payette				
Cascade	653.2	462.9	477.0	370.8
Deadwood	161.9	85.4	108.5	80.6
Weiser				
Mann Creek	11.1	6.6	5.9	--
Clearwater				
Dworshak	2016.0	773.9	1273.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	904.3	1047.3	1026.4

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1, 1982



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8610	96	Apr-Sep	--	8858
		7495	97	Apr-Jul	--	7708
		7270	97	Apr-Jun	--	6114
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	13500	98	Apr-Sep	--	13781
		12270	98	Apr-Jul	--	12519
		10420	98	Apr-Jun	--	10633
Priest River						
Priest River 1/	(at)	998	112	Apr-Sep	--	895
		938	112	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	2900	100	Apr-Sep	--	2910
St. Joe River						
Calder	(at)	1250	96	Apr-Sep	--	1309
		1190	96	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1300	144	Apr-Sep	--	903
Palisades Inflow 3/		5400	140	Apr-Sep	--	3863
Heise 4/	(nr)	5730	135	Apr-Sep	--	4247
Blackfoot 5/	(nr)	5950	130	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	810	110	Apr-Sep	--	737
Rexburg 7/	(nr)	1810	119	Apr-Sep	--	1534
Portneuf River						
Topaz	(at)	140	130	Mar-Sep	--	108
Oakley Reservoir Inflow		44	122	Mar-Sep	--	36
Salmon Falls Creek						
San Jacinto	(nr)	118	124	Mar-Sep	--	95
		112	124	Mar-Jul	--	90
		107	126	Mar-Jun	--	85

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Bruneau River						
Hot Springs	(nr)	306	122	Mar-Sep	--	251
Little Lost River						
Howe	(nr)	48	109	Apr-Sep	--	45
Wet Creek	(bl)	42.5	104	Apr-Sep	--	41
		27	104	Apr-Jun	--	26
Big Lost River						
Howell Ranch	(at)	250	111	Apr-Sep	--	225
		170	110	Apr-Jun	--	154
Mackay 8/	(nr)	225	110	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		390	122	Apr-Sep	--	319
Inflow 9/		370	122	Apr-Jul	--	303
		405	122	Mar-Jul	--	332
Little Wood River						
Carey	(nr)	111	104	Apr-Sep	--	107
		103	104	Apr-Jul	--	99
		90.5	104	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	870	119	Apr-Sep	--	733
		805	119	Apr-Jul	--	676
Boise 10/	(nr)	1990	120	Apr-Sep	--	1656
		1845	120	Apr-Jul	--	1536
		1630	120	Apr-Jun	--	1360
South Fork						
Anderson Dam 11/	(at)	757	122	Apr-Sep	--	622
Owyhee River						
Gold Cr., Nev. 12/	(nr)	30	130	Apr-Jul	--	23
Owyhee, Nev. 12/	(nr)	100	125	Apr-Jul	--	80
Lake Owyhee		588	150	Apr-Sep	--	392
net inflow 13/		865	150	Feb-Jul	--	578
Payette River						
Horseshoe Bend 14/	(nr)	2270	122	Apr-Sep	--	1860
North Fork						
Cascade 15/	(at)	682	121	Apr-Sep	--	564
Banks 15/	(nr)	870	120	Apr-Sep	--	726

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

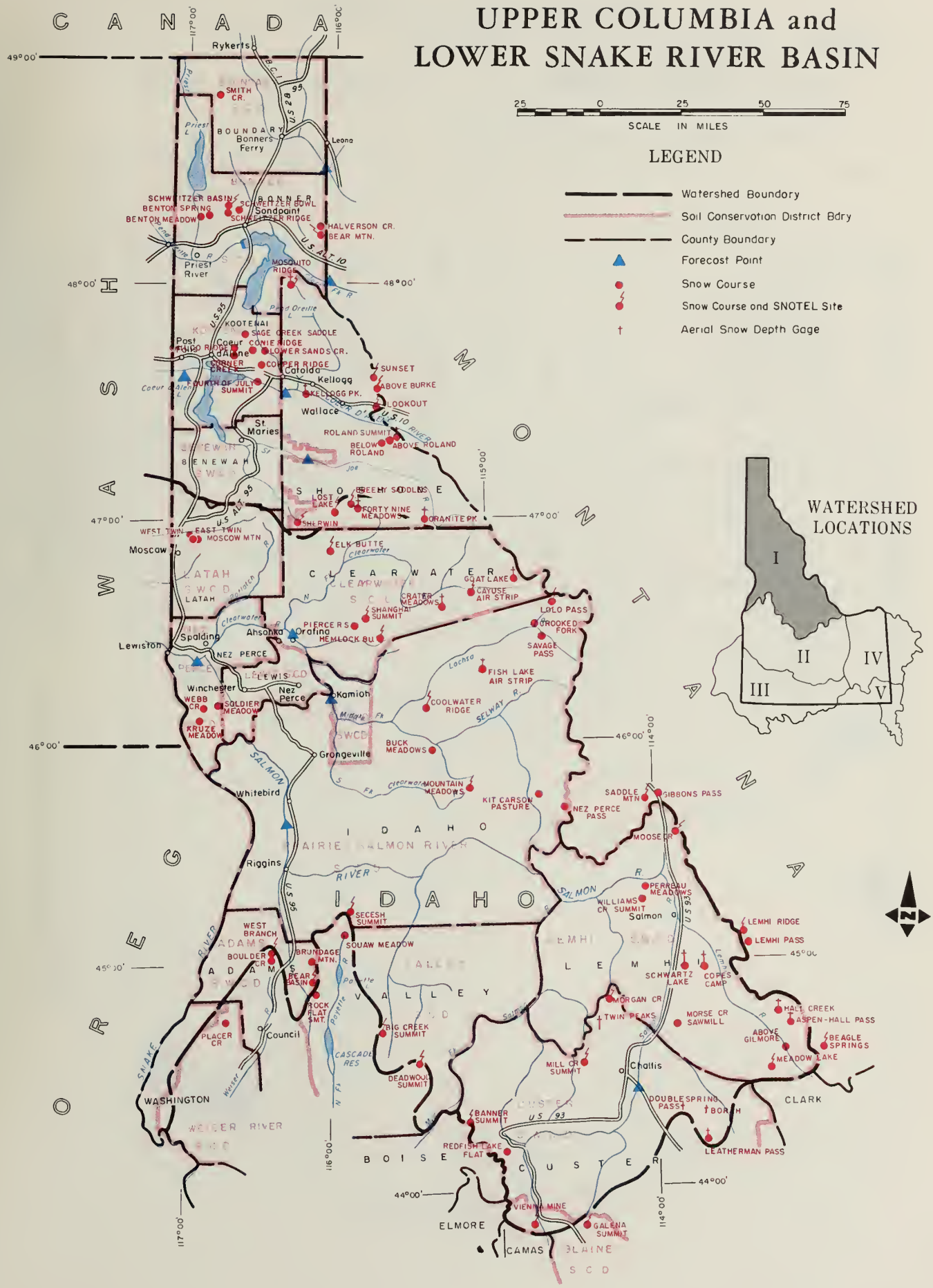
STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Weiser River						
Weiser	(nr)	566	101	Mar-Sep	--	558
Salmon River						
Whitebird	(at)	8310	116	Apr-Sep	--	7196
Clearwater River						
Spalding	(at)	9270	107	Apr-Sep	--	8672
GREAT BASIN						
BEAR RIVER						
Harer	(at)	353	106	Apr-Sep	--	332
Montpelier Creek						
Montpelier	(nr)	17	137	Apr-Sep	--	12.4
Cub River						
Preston	(nr)	56	112	Apr-Sep	--	50
		53	113	Apr-Jul	--	47

1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake.
3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades.
5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
8/ Observed flow corrected for storage in Mackay Reservoir.
9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
10/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
11/ Corrected for storage in Anderson Ranch Reservoir.
12/ Corrected for storage in Wildhorse Reservoir.
13/ From WPRS records of inflow.
14/ Corrected for storage in Cascade and Deadwood Reservoirs.
15/ Corrected for storage in Cascade Reservoir.
Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.



USDA-SCS-PORTLAND, OR 1981 M7-OL-22023-1

INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		KOOTENAI RIVER				
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800
		PEND OREILLE-PRIEST RIVER				
16A8S	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4920
16A10S	I	Schweitzer Basin	18	58N	2W	6090
16A6	I	Schweitzer Bowl	20	58N	2W	4800
16A5	I	Schweitzer Ridge	19	58N	2W	6200
		HAYDEN CREEK				
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4080
		SPOKANE RIVER				
15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	35	47N	6E	3920
16B2	I	Copper Ridge	6	50N	1W	4820
16B3	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	4	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2S	I	Lookout	4	47N	6E	5140
16B1	I	Lower Sands Creek	32	51N	1W	3120
16A4AS	I	Mosquito Ridge	5	54N	2E	5200
15B5A	I	Roland Summit	26	47N	6E	5120
16C1S	I	Sherwin	28	42N	1E	3200
15B9AS	I	Sunset	33	49N	5E	5540

LOWER SNAKE BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		PALOUSE RIVER				
16C3	I	East Twin	13	40N	5W	4130
16C2	I	Moscow Mountain	18	40N	4W	4410
16C4	I	West Twin	14	40N	5W	4220
		CLEARWATER RIVER				
15B20SR	I	Breezy Saddle	1	43N	4E	5010
15D5	I	Buck Meadows	27	31N	8E	5650
15C3S	I	Cayuse Airstrip	4	38N	11E	3500
15C7S	I	Coolwater Mountain	3I	33N	8E	6040
15C9A	I	Crater Meadows	11	37N	9E	5960
14C11	I	Crooked Fork	27	37N	14E	3610
16C15	I	Elk Butte	6	40N	3E	5550
15C2A	I	Fish Lake Airstrip	34	35N	11E	5650
15B3A	I	Forty-nine Meadows	6	43N	5E	4830
14C9A	I	Goat Lake	4	38N	13E	6500
16C6SR	I	Hemlock Butte	7	36N	7E	5810
15C10S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	15E	4950
16C17	I	Kruze Meadows	11	32N	4W	4780
14C5S	I	Lolo Pass	16	38N	15E	5240
15B14S	I	Lost Lake	9	43N	4E	6110
15D6S	I	Mountain Meadows	9	27N	10E	6360
14D1	M	Nez Perce Pass	25	1S	24W	6570
15C5	1	Pierce Ranger Station	2	36N	5E	3080
14C4	I	Savage Pass	18	36N	15E	6170
15C4S	I	Shanghai Summit	7	37N	6E	4600
16C18	I	Soldier Meadows	33	33N	3W	4650
16C19	I	Wehb Creek	36	33N	3½W	4720
		SALMON RIVER				
13E19	I	Above Gilmore	13	13N	26E	8240
13E21A	I	Aspen-Hall Pass	6	16N	28E	8200
16E11S	I	Bear Basin	30	19N	3E	5350
15E2S	I	Big Creek Summit	24	15N	5E	6580
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17	I	Copes Camp	36	18N	22E	7520
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9860
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23S	M	Lemhi Ridge	4	10S	15W	8100
13E18S	I	Meadow Lake	26	13N	26E	9150
14E1S	I	Mill Creek Summit	8	13N	17E	8800
13D16S	I	Moose Creek	14	27N	21E	6200
14E4S	I	Morgan Creek	31	18N	19E	7600
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14D5	I	Perreau Meadows	23	21N	20E	8500
14E7	I	Redfish Lake Flat	35	10N	13E	6560
13E16	I	Schwartz Lake	34	18N	22E	8540
14E3A	I	Twin Peaks	28	15N	17E	9190
14F4S	I	Vienna Mine	1	5N	13E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7990

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

MIDDLE SNAKE RIVER BASIN NORTHSIDE

SCALE IN MILES
25 0 25 50 75
IDAHO
OREGON
MONT.
WASHINGTON
ADAMS
VALLEY
PAYETTE
GEM
BOISE
CANYON
ADA
ELMORE
OWYHEE
CUSTER
LEMHI
CLARK
JEFFERSON
BUTTE
BLAINE
BINGHAM
CAMAS
GOODING
LINCOLN
WOOD RIVER
MINI-DOKA
POWER
NORTH SIDE
JEROME
TWIN FALLS
CASSIA
Weiser
Cambridge
Council
McCall
Coscode
Payette
Emmett
Horseshoe Bend
Boise
Nampa
Caldwell
Idaho City
Bonks
Lowman
Mountain Home
Fairfield
Hailey
Ketchum
Sun Valley
Arco
Carey
Gooding
Richfield
Shoshone
Rupert
Burley
Twin Falls
Mackay
Leadore
Salmon
Challis
Stanley
Grandview
Oreana
Murphy
Kuna
Meridian
Middleton
Notus
Parma
Wilder
Greenleaf
Homedale
Marsing
New Plymouth
Fruitland
Ontario
Vale
Nyssa
Adrian
Jordan Valley
Rockville
Declo
Malta
Albion
Oakley
Heyburn
Rupert
Paul
Rupert
Burley
Rockland
American Falls
Pocatello
Chubbuck
Inkom
Lava Hot Springs
Soda Springs
Preston
Franklin
Malad City
Downey
Tremonton
Brigham City
Logan
Smithfield
Hyrum
Wellsville
Mendon
Richmond
Cache Junction
Garden City
Randolph
Woodruff
Laketown
Garden City
Bear Lake
Montpelier
Bloomington
Georgetown
Bern
Paris
Bennington
Dingle
Geneva
Fish Haven
Saint Charles
Bear Lake
Liberty
Wardboro
Victor
Driggs
Tetonia
Ashton
Island Park
Henrys Lake
Big Springs
Mesa Falls
Warm River
Harriman
Egin
Rexburg
Sugar City
Teton
Newdale
Parker
Chester
Ashton
Drummond
Dubois
Spencer
Leadore
Salmon
Tendoy
Lemhi
Gibbonville
Leesburg
Shoup
North Fork
Salmon
Challis
Mackay
Arco
Howe
Atomic City
Aberdeen
Blackfoot
Shelley
Firth
Ucon
Idaho Falls
Iona
Ammon
Bonneville
Jefferson
Madison
Fremont
Clark
Teton
Custer
Lemhi
Butte
Blaine
Camas
Gooding
Lincoln
Jerome
Minidoka
Power
Cassia
Twin Falls
Owyhee
Elmore
Ada
Canyon
Gem
Payette
Washington
Adams
Valley
Boise
Squaw Meadow
Secesh Summit
Boulder Creek
West Branch
New Meadows
Grundage Mtn.
Rock Flat Summit
Bear Basin
Lake Fork
Placer Creek
Turgill Ridge
Bear Saddle
Mann Creek
Robinson Cr. Ridge
Thorson Cabin
Tripod Summit
Squaw Flat
Big Creek Summit
Crawford R.S.
Deadwood Res.
Deadwood Airstrip
Cozy Cove
Banner Summit
Jackson Peak
Deaman Gulch
Moores Cr. Summit
Graham G.S.
Bad Bear
Road Creek
Bogus Basin
Bogus Basin Road
Atlanta Summit
Trinity Mtn.
Prairie
Couch Summit
Soldier R.S.
Little Camas Flat
Camas Creeks
Bennett Mtn.
Galena Summit
Vienna Mine
Galena
Graham Ranch
Dollar Mount Baloy
Hide Summit
Stickney Mill
Lost Wood Copper Divide
Hyndman Swede Peak
Mascot Mine
Bear Canyon
Garfield R.S.
Muldoon
Telfer Ranch
Fishpole Lake
Iron Bog
Leadore Belt
Iron Mine Cr.
Dry Fork
Leatherman Pass
Hilts Creek
Hilts Creek Summit
White Knob
Meadow Lake
Above Gilmore
Moonshine
Sawmill Canyon
Fairview Guard Sta.
Lost Garfield
Squaw Creek
Cascade Res.
Deadwood Res.
Payette Lake
Lake Fork
Mackay Res.
Wood Res.
Little Wood Res.
Mag Res.
Long Tom Res.
Anderson Ranch Dam
Arrowrock Dam
Lucky Peak Dam
Lake Walcott
American Falls Res.
Snake River
Boise River
Payette River
Big Wood
Little Wood
Big Lost
Lost River
Little Lost
Birch Creek
Medicine Lodge
Camas Creek
Teton River
Henrys Fork
Snake
Portneuf
Bear River
Malad River
Weber River
Ogden River
Provo River
Jordan River
Utah Lake
Great Salt Lake
Salt Lake City
Ogden
Provo
Orem
Tooele
Wendover
Grantsville
Stockton
Vernon
Lehi
Eureka
Nephi
Fillmore
Delta
Oasis
Sevier Lake
Scipio
Holden
Meadow
Kanosh
Cove Fort
Beaver
Minersville
Milford
Frisco
Newcastle
Enterprise
Modena
Veyo
Pine Valley
Central
Leeds
Hurricane
La Verkin
Virgin
Rockville
Springdale
Zion National Park
Kanab
Alton
Glendale
Orderville
Mount Carmel
Panguitch
Hatch
Bryce Canyon
Tropic
Escalante
Boulder
Torrey
Capitol Reef
Fruita
Loa
Hanksville
Bicknell
Teasdale
Grover
Caineville
Hanksville
Green River
Moab
La Sal
Monticello
Blanding
Bluff
Mexican Hat
Monument Valley
Kayenta
Tuba City
Cameron
Grand Canyon
Flagstaff
Williams
Ash Fork
Seligman
Kingman
Hackberry
Oatman
Golden Shores
Parker
Lake Havasu City
Bullhead City
Needles
Topock
Yucca
Kingman
Wikieup
Hillside
Congress
Prescott
Jerome
Cottonwood
Clarkdale
Sedona
Camp Verde
Cornville
Page
Lake Powell
Glen Canyon Dam
Navajo Mountain
Navajo Reservation
Hopi Reservation
Painted Desert
Petrified Forest
Holbrook
Winslow
Joseph City
Snowflake
Taylor
Show Low
Pinetop
Lakeside
Heber
Overgaard
Forest Lakes
Clints Well
Payson
Star Valley
Pine
Strawberry
Tonto Basin
Roosevelt
Globe
Miami
Superior
Kearny
Hayden
Winkelman
Mammoth
San Manuel
Oracle
Tucson
Marana
Red Rock
Casa Grande
Coolidge
Florence
Eloy
Picacho
Arizona City
Maricopa
Stanfield
Casa Grande Mts.
Sacaton
Chandler
Gilbert
Mesa
Tempe
Scottsdale
Phoenix
Glendale
Peoria
Sun City
Surprise
Wickenburg
Aguila
Salome
Tonopah
Arlington
Buckeye
Gila Bend
Ajo
Why
Lukeville
Sonoyta
Puerto Penasco
Organ Pipe Cactus Nat. Mon.
Cabeza Prieta Game Range
Barry M. Goldwater Range
Yuma
Somerton
San Luis
Gadsden
Yuma Proving Ground
Imperial Dam
Laguna Dam
Mohawk Valley
Yuma Mesa
Wellton
Dateland
Hyder
Roll
Tacna
Aztec
Welton
Mohawk

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
LITTLE LOST RIVER						
13E5	1	Fairview Guard Station	27	12N	26E	6750
13E10S	I	Hilts Creek	15	8N	25E	8000
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6S	I	Moonshine	31	13N	26E	7440
13E4	I	Sawmill Canyon	17	12N	26E	7000
13E7	1	Wet Creek Summit	15	8N	25E	7680
BIG LOST RIVER						
13F3S	I	Bear Canyon	22	5N	21E	7900
13F2	1	Copper Basin	26	6N	21E	7640
13F20	I	Dry Fork	23	3N	23E	7220
13F8	1	Fishpole Lake	28	4N	22E	9300
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6700
14F3S	I	Lost Wood Divide	25	6N	18E	7900
14F2S	1	Stickney Mill	9	6N	19E	7430
BIG WOOD RIVER						
15F9	I	Camas Creeks Divide	11	2S	9E	5710
15F15	1	Chimney Creek	9	1N	12E	6400
14F8S	I	Dollarhide Summit	9	3N	15E	8420
14F1	1	Galena	4	6N	15E	7440
14F6S	1	Galena Snotel	4	6N	15E	7470
14F12S	1	Galena Summit	7	6N	15E	8780
14F5	1	Graham Ranch	10	5N	17E	6270
14F16S	I	Hyndman Creek	2	4N	19E	7440
14F7	I	Mascot Mine	8	4N	20E	7780
14F9	1	Mount Baldy	23	4N	17E	8920
14F11	I	Soldier Ranger Station	29	2N	14E	5740
LITTLE WOOD RIVER						
13F4S	1	Garfield Ranger Station	11	3N	21E	6560
13F5	1	Muldoon	26	3N	21E	6320
13F9RS	I	Swede Peak	4	3N	21E	7640
FISH CREEK						
13F10	1	Iron Mine Creek	33	3N	23E	6300
13F6	1	Telfer Ranch	7	2N	23E	5840
BOISE RIVER						
15F4S	I	Atlanta Summit	23	5N	10E	7580
15F2	I	Bad Bear	35	7N	6E	4940
16F4	I	Bogus Basin Road	32	5N	3E	5540

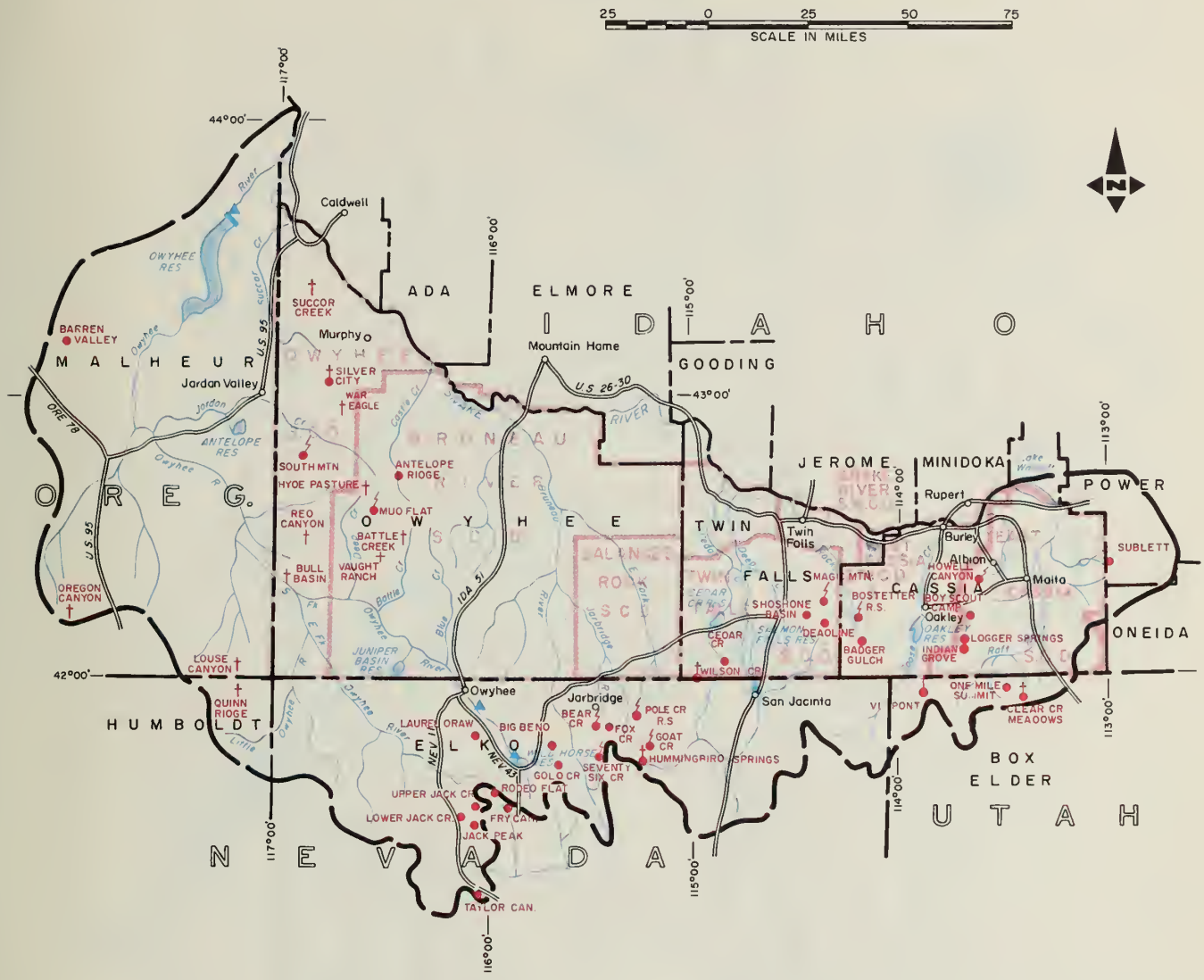
No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
BOISE RIVER (cont.)						
14F10	I	Couch Summit	9	2N	14E	6840
16F1	1	Deadman Gulch	29	7N	4E	5600
15F14SR	1	Graham Guard Station	9	7N	10E	5690
15E9S	I	Jackson Peak	7	8N	9E	7070
15F1SR	I	Moores Creek Summit	19	7N	7E	6100
15F6S	1	Prairie	13	2N	7E	4800
15F3	I	Road Creek	5	5N	8E	5380
15F5SR	I	Trinity Mountain	6	3N	9E	7770
CANYON CREEK						
15F7S	I	Bennett Mountain	7	2S	9E	6560
15F12	1	Little Camas Flat	21	1S	9E	4940
PAYETTE RIVER						
15E11S	I	Banner Summit	11	11N	10E	7040
16F2	1	Bogus Basin	16	5N	3E	6340
15E8SR	1	Cozy Cove	17	11N	7E	5380
15E3	1	Crawford Ranger Station	21	14N	4E	4860
15E10	1	Deadwood Airstrip	8	11N	7E	5360
15E4S	1	Deadwood Summit	13	14N	7E	6860
15E1	1	Lake Fork	3	18N	4E	5290
16E1	1	Rock Flat Summit	1	18N	2E	5310
15D1S	1	Secesh Summit	4	21N	4E	6520
15D2	1	Squaw Meadow	17	21N	4E	5900
16E3	1	Tripod Summit	17	11N	3E	5260
WEISER RIVER						
16D1	I	Boulder Creek	16	20N	1W	5440
16E2	1	Placer Creek	15	17N	3W	5860
16E5S	1	Squaw Flat	32	17N	2E	6240
16D8S	I	West Branch	15	20N	1W	5560
MANN CREEK						
6E10S	1	Bear Saddle	29	15N	5W	6180
16E9	1	Mann Creek	20	15N	5W	6080
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E2	1	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forcast Point
- Snow Course
- Snow Course and SNOTEL Site
- Aerial Snow Depth Gage

WATERSHED LOCATIONS

USDA-SCS-PORTLAND, OR 1981 M7-OL-22023.3

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE

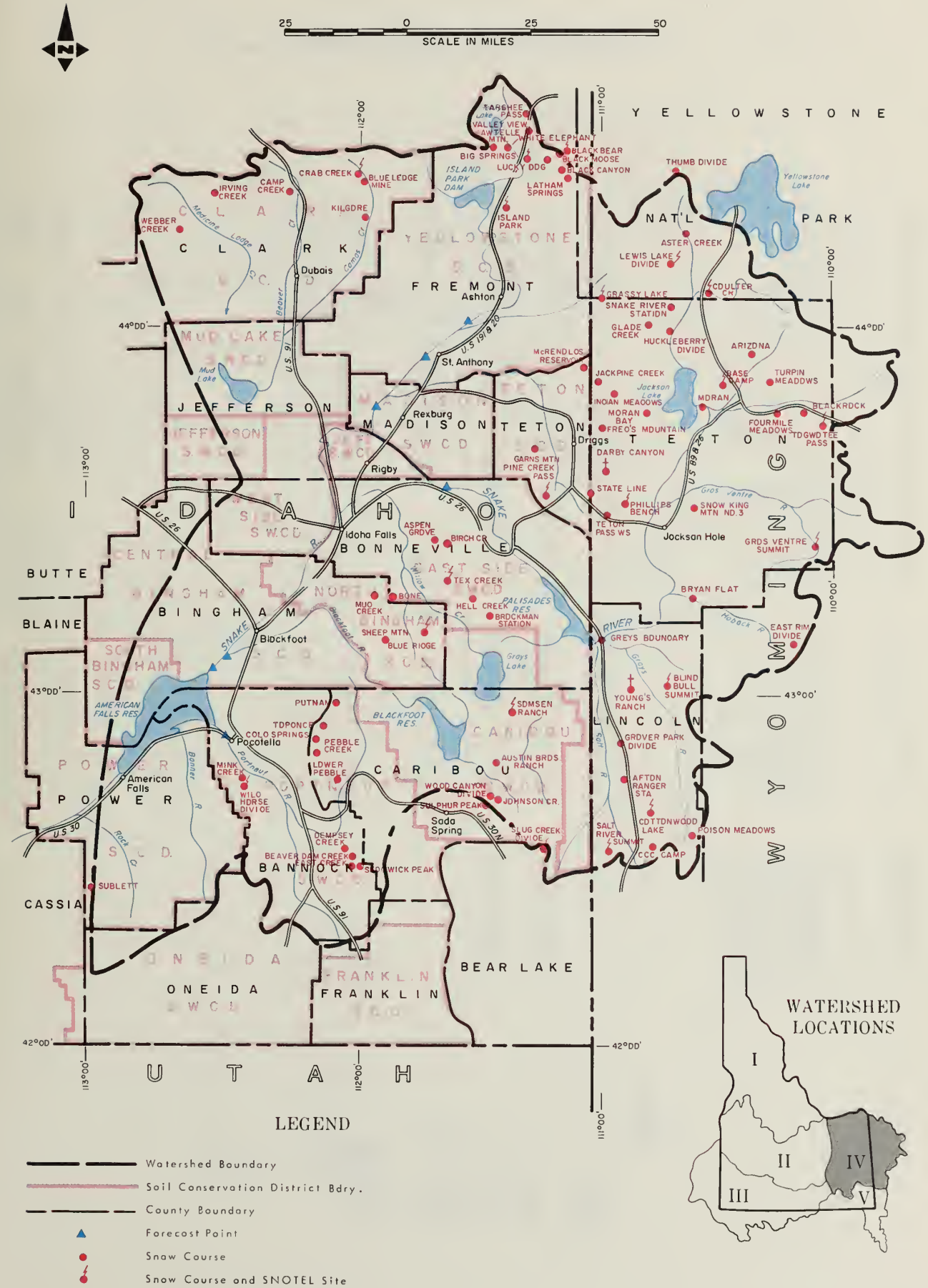
No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elevation
		RAFT RIVER				
13G2	I	Boy Scout Camp	8	14S	24E	7740
13H2	U	Clear Creek Meadows	26	14N	14W	9420
13G1S	I	Howell Canyon	2	13S	24E	7980
13G4	I	Indian Grove	14	15S	23E	7560
13G3	I	Logger Springs	2	15S	23E	8120
13H1	U	One Mile Summit	17	14N	14W	7330
12G8	I	Sublett	17	12S	30E	5950
		GOOSE - TRAPPER CREEK				
14G3	I	Badger Gulch	24	15S	19E	6660
14G1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670
		SALMON FALLS CREEK				
14G5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
15H13S	N	Goat Creek	31	46N	60E	8880
14G2S	I	Magic Mountain	25	14S	18E	6880
14G6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500
		BRUNEAU RIVER				
15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S	N	Pole Creek Ranger Station	13	46N	50E	8360
15H3S	N	Seventy-six Creek	6	44N	58E	7100
		OWYHEE RIVER				
16G6	I	Antelope Ridge	35	8S	1W	6140
18F5	O	Barren Valley	26	17S	38E	4200
16G9A	I	Battle Creek	10	11S	1E	5720
15H4	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4A	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7S	I	Mud Flat	34	9S	2W	5730
17G5A	O	Oregon Canyon	9	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16G11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3	I	Silver City	7	5S	3W	6400
16G1S	I	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12A	I	Vaught Ranch	10	11S	1W	5950
16G13A	I	War Eagle	20	5S	3W	7280

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

UPPER SNAKE RIVER BASIN



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and SNOTEL Site
- Aeriol Snow Depth Goge

USDA SCS-PORTLAND, OR 1981 M7-OL-22023-4

INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
SNAKE RIVER-WYOMING						
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44°17'		110°38'	7700
10F2S	Wy	Base Camp	20	46N	113W	6900
10F7S	Wy	Blackrock	4	44N	111W	8600
10G2S	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CGC Camp	9	29N	118W	7500
10G5S	Wy	Gottonwood Lake	25	31N	118W	7500
10E10S	Wy	Coulter Creek	44°09'		110°33'	7600
10F17	Wy	East Rim Divide	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19S	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9S	Wy	Lewis Lake Divide	44°13'		110°40'	7900
10F4	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8S	Wy	Salt River Summit	32	29N	118W	7900
10E12	Wy	Snake River Station	9	48N	115W	6780
10F20	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44°22'		110°35'	7900
10F9S	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530
HENRY'S FORK RIVER						
11E9S	I	Big Springs	4	13N	44E	6400
11E35S	M	Black Bear	27	15S	5E	7950
11E18	1	Black Ganyon	11	13N	45E	7960
11E19	I	Black Moose	33	14N	45E	8160
10E15S	Wy	Grassy Lake	6	48N	117W	7230
11E10S	1	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7630
11E14	I	Lucky Dog	2	13N	44E	6860
11E32	1	Sawtell Mountain	7	14N	43E	8720
11E34	1	Targhee Pass	32	16N	44E	6980
11E8	I	Valley View	12	15N	43E	6680
11E36	1	White Elephant	17	14N	43E	7710
TETON RIVER						
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	1	Garns Mountain	20	4N	44E	8300
10F25	Wy	lndian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	1	McRenolds Reservoir	5	7N	46E	6720
10F23S	Wy	Phillips Bench	43°31'		110°55'	8200
11F2	I	Pine Creek Pass	24	3N	44E	6810
11F1	I	State Line	32	3N	46E	6660
10F13	Wy	Teton W.S.	43°30'		110°59'	7740

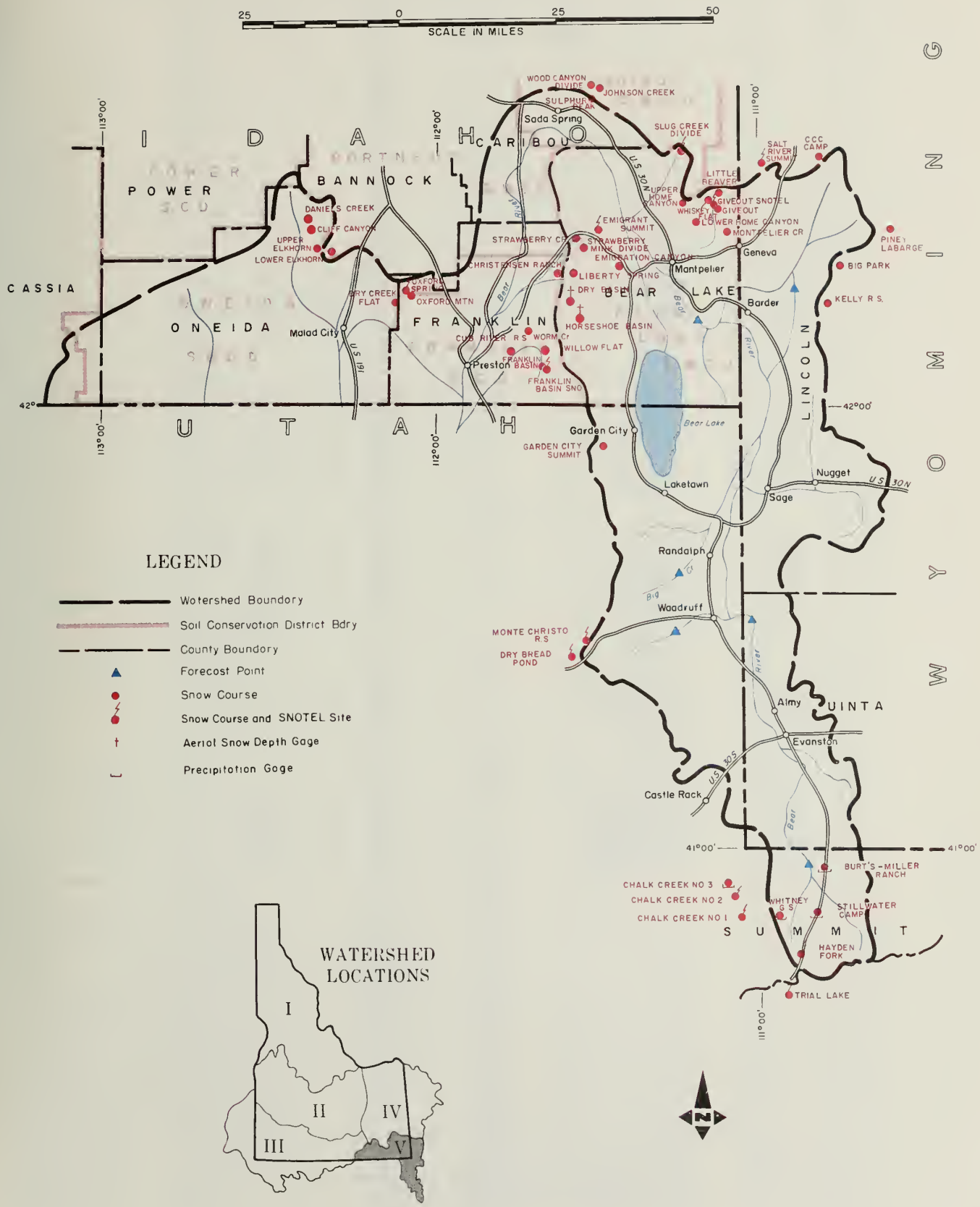
No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
CAMAS-BEAVER CREEK						
11E11	1	Blue Ledge Mine	21	13N	38E	6900
12E3	1	Camp Greek	21	13N	36E	6580
11E17S	1	Crab Creek	21	13N	38E	6860
11E12	I	Kilgore	6	12N	39E	6200
MEDICINE LODGE CREEK						
12E4	1	lrving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700
WILLOW CREEK						
11F10	1	Aspen Grove	36	2N	41E	6500
11F3	1	Birch Greek	36	2N	41E	6800
11F8	1	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	1	Hell Creek	27	1S	42E	7350
11F14	1	Mud Creek	4	2S	39E	7100
11F11SR	I	Sheep Mountain	30	2S	41E	6570
11F5SR	I	Tex Greek	36	1N	41E	6650
BLACKFOOT RIVER						
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11F17	1	Blue Ridge	35	2S	39E	6780
11G22	I	Johnson Creek	4	9S	43E	6730
11G5S	I	Slug Creek Divide	15	10S	44E	7225
11G1S	I	Somsen Ranch	25	5S	43E	7000
11G19	1	Sulphur Peak	8	9S	43E	7070
11G23	1	Wood Canyon Divide	5	9S	43E	7450
FORT PORTNEUF RIVER						
12G7	1	Beaverdam Greek	22	10S	38E	6120
12G16	1	Gold Springs	15	7S	37E	7000
12G5	1	Dempsey Greek	18	10S	38E	6100
11G24	1	East Creek	26	10S	38E	7000
12G6	I	Lower Pebble	7	8S	38E	5780
12G1	I	Mink Creek	33	7S	34E	6410
12G2	1	Pebble Creek	34	7S	37E	6550
12G14	I	Putnam	2	6S	37E	7220
11G17	1	Sedgwick Peak	30	10S	39E	7850
12G15	1	Toponce	23	6S	37E	6160
12G17S	1	Wildhorse Divide	4	8S	34E	6490

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

GREAT BASIN



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and SNOTEL Site
- Aerial Snow Depth Gage
- Precipitation Gage

USDA-SCS-PORTLAND, OR 1981 M7-GL-22073-K

INDEX to SNOW COURSES

GREAT BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elevation
		BEAR RIVER				
10G11	Wy	Big Park	7	27N	117W	8700
11H13P	U	Dry Bread Pond	19	8N	4E	8230
11G7	1	Emigration Canyon	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burts-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300
		MONTPELIER CREEK				
11G16	1	Giveout	2	12S	45E	6840
11G25S	I	Giveout Snotel	2	12S	45E	6930
11G20	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G18	I	Montpelier Creek	14	12S	45E	6540
11G26	I	Upper Home Canyon	31	11S	45E	8560
11G21	I	Whiskey Flat	26	11S	45E	6960
		MINK CREEK				
11G11	1	Christensen Ranch	27	13S	41E	5560
11G14A	I	Dry Basin	30	13S	42E	7820
11G6S	1	Emigrant Summit	21	12S	42E	7390
11G15A	1	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	13S	42E	8600
11G9	1	Strawberry Creek	9	13S	41E	5820
11G10	1	Strawberry Mink Divide	14	13S	41E	6720
		CUB RIVER				
11G12	1	Cub River Ranger Station	9	15S	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G2S	1	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620
		MALAD RIVER				
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	13S	37E	6360
12G11	1	Lower Elkhorn	30	12S	36E	6960
12G3	1	Oxford Mountain	27	13S	37E	6800
12G18S	1	Oxford Spring	27	13S	37E	6740
12G10	1	Upper Elkhorn	25	12S	35E	7140

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage
10J7P	Precipitation gage

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Above Burke	Coeur d'Alene	4100	2/1	61	14.2	4.8	16.4*
Allen Ranch	Blackfoot	6470	1/26	44	9.8	--	--
Aspen Grove	Willow	6500	1/28	46	14.3	5.2	8.4*
Atlanta Summit	Boise	7600	1/27	97	30.1	13.0	25.2
Atlanta Townsite	Boise	5280	1/27	46	11.0	4.9	--
Austin Bros. Ranch	Blackfoot	6400	1/26	39	9.8	2.3	6.4
Bad Bear	Boise	4940	1/29	50	12.5	5.0	11.0
Banner Summit	Payette	7040	1/27	86	26.2	13.4	--
Battle Creek	Owyhee	5710	1/29	9	2.7	T	2.8
Bear Basin	Little Salmon	5350	1/30	53	13.8	9.0	--
Bear Canyon	Big Lost	7900	1/27	51	14.7	10.8	13.0*
Bear Creek (Nv)	Jarbidge	8040	1/26	58	18.2	5.3	13.6
Beaverdam Creek	Portneuf	6120	1/30	34	9.8	2.8	--
Benton Meadow	Priest	2370	1/28	25	5.9	0.0	5.5
Benton Spring	Priest	4920	1/29	44	12.1	5.5	13.9
Big Creek Summit	Salmon	6580	1/28	101	30.3	15.5	26.3
Birch Creek	Willow	6800	1/28	41	12.3	3.4	7.4*
Blue Ridge	Blackfoot	6780	2/1	59	19.8	6.5	--
Bogus Basin	Payette	6340	1/29	66	19.7	8.0	17.6
Bogus Basin Road	Boise	5540	1/29	42	9.3	1.6	6.0
Bone	Willow	6200	2/1	27	7.0	2.5	6.0*
Boulder Creek	Weiser	5440	2/1	68	17.6	10.1	18.0
Breezy Saddle	Clearwater	5010	2/4	83	20.9	7.2	--
Brockman Station	Willow	6430	1/29	35	9.2	3.9	--
Brundage Mountain	Little Salmon	7560	1/29	114	36.6	17.0	32.2*
Bull Basin (A)	Owyhee	5480	1/29	4	1.2	0.4	1.3
Camp Creek	Beaver	5780	1/29	28	5.0	5.0	8.3
Cayuse Airstrip	Clearwater	3500	2/4	45	10.5	1.0	9.7*
Copper Basin	Big Lost	7640	1/27	21	6.1	5.9	6.8
Couch Summit	Boise	6840	1/29	53	14.4	10.5	13.7*
Cozy Cove	Deadwood	5380	1/27	54	13.9	7.2	13.2*
Crater Meadows	Clearwater	5960	2/4	112	31.5	10.4	31.0*
Crawford Rgr. Sta.	Payette	4860	1/31	26	7.2	3.4	6.7
Crooked Fork	Lochsa	3610	1/29	40	12.0	2.4	10.4*
Cub River Rgr. Sta.	Cub	5450	1/26	32	8.6	2.8	6.4
Darby Canyon (Wy)	Teton	8250	2/3	73	21.4	7.0	15.4*
Deadline	Salmon Falls	7400	1/31	54	17.2	7.3	15.7
Deadline South	Salmon Falls	7450	1/31	61	19.5	--	--
Deadwood Airstrip	Deadwood	5360	1/27	51	12.6	7.9	11.7
Deadwood Summit	Deadwood	6860	1/27	122	40.1	22.4	34.8*
Dempsey Creek	Portneuf	6100	1/30	40	13.4	4.6	8.3
Dollarhide Summit	Big Wood	8420	1/27	80	25.1	11.2	18.3*
East Creek	Portneuf	7000	1/30	44	14.0	3.6	--
Elk Butte	Clearwater	5550	2/4	98	25.7	7.7	--
Emigrant Summit	Bear	7390	1/28	77	24.6	7.1	17.0
Emigration Canyon	Bear	6500	1/28	38	10.6	3.8	7.5
Fairview Guard Sta.	Little Lost	6750	1/29	21	4.8	2.0	3.7
Fish Lake Airstrip	Lochsa	5650	2/4	108	29.9	9.4	28.8*
Forty-nine Meadows	Clearwater	4830	2/4	76	19.7	6.4	--
Fourth of July Smt.	Coeur d'Alene	3200	2/1	29	8.5	0.2	7.2
Franklin Basin	Cub	8040	1/26	64	21.2	5.2	17.8*
Freds Mountain (Wy)	Teton	8150	1/28	71	21.5	9.9	13.9*
Galena	Big Wood	7440	1/28	63	17.8	10.2	14.8
Galena Summit	Big Wood	8780	1/28	71	21.1	11.8	17.5
Garfield Rgr. Sta.	Little Wood	6560	1/27	29	7.3	6.4	8.0*
Gibbons Pass (Mt)	Bitterroot	7100	1/29	74	20.4	11.2	16.7
Giveout	Montpelier	6860	1/27	46	12.3	2.7	8.5
Goat Creek (Nv)	Salmon Falls	8880	2/1	54	16.7	4.0	11.8
Graham Guard Sta.	Boise	5690	1/27	55	14.7	5.4	--
Graham Ranch	Big Wood	6270	1/28	44	12.0	8.4	10.5
Grassy Lake (Wy)	Henrys Fork	7265	1/27	104	31.6	13.6	24.8
Hemlock Butte	Clearwater	5810	2/4	129	36.3	10.9	35.1*
Hilts Creek	Little Lost	8000	1/28	38	10.4	5.4	--
Hoodoo Basin (Mt)	Clark Fork	6000	1/27	120	37.2	20.4	36.3*
Hoodoo Creek (Mt)	Clark Fork	5900	1/27	114	33.0	16.6	32.5*
Howell Canyon	Marsh Creek	7980	1/27	76	26.3	5.4	18.6
Humboldt Gulch	Coeur d'Alene	4250	2/1	55	12.2	--	--
Hyde Pasture (A)	Jordan-Owyhee	5760	1/29	30	9.0	--	4.3
Hyndman Creek	Big Wood	7440	1/27	45	12.0	9.3	--
Idaho City	Boise	4000	1/29	35	8.6	2.9	--
Indian Meadows	Teton	8240	2/2	93	28.3	--	--
Island Park	Henrys Fork	6290	1/27	56	13.4	7.6	12.0
Big Springs	Henrys Fork	6400	1/27	59	16.1	8.0	14.7

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated. (S) Snotel ground truth reading.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Jackpine Creek (Wy)	Teton	7350	1/29	63	18.6	6.2	14.9*
Jackson Peak	Boise	7070	1/27	84	24.4	13.5	24.1*
Johnson Creek	Blackfoot	6730	2/1	45	12.4	4.1	--
Kilgore	Camas Creek	6320	1/30	32	8.4	5.8	8.6
Kruze Meadow	Clearwater	4780	1/29	35	9.6	--	--
Lake Fork	Payette	5290	1/30	50	12.3	6.5	11.2*
Langford Flat Creek	Salmon Falls	5980	1/31	21	4.9	--	--
Lava Creek	Willow	7350	1/29	56	15.2	5.9	--
Little Beaver	Montpelier	6970	1/27	54	15.9	2.3	10.6
Lolo Pass	Lochsa	5240	1/30	79	23.4	7.7	21.8*
Lookout	Coeur d'Alene	5140	1/28	83	21.8	10.8	25.4
Lost Garfield	Little Lost	6600	1/29	19	4.2	1.7	3.1
Lost Lake	Clearwater	6110	2/4	130	36.9	16.3	39.4*
Lost-Wood Divide	Big Lost	7900	1/27	65	20.1	12.1	17.0*
Lower Home Canyon	Montpelier	7640	1/28	48	13.6	3.1	10.1*
Lower Pebble	Portneuf	5780	1/30	55	19.8	3.1	9.2*
Magic Mountain	Rock Creek	6880	2/1	59	17.9	6.8	12.8
Mascot Mine	Big Wood	7780	1/27	45	13.0	8.2	9.8*
McRenolds Reservoir	Teton	6720	1/29	59	16.1	6.5	13.0*
Mill Creek Summit	Salmon	8800	1/27	67	21.2	8.6	17.1
Mink Creek	Portneuf	6410	1/31	59	21.7	7.0	12.4*
Montpelier Creek	Montpelier	6540	1/27	35	8.4	1.9	5.8
Moonshine	Little Lost	7440	1/29	31	8.2	4.2	7.9*
Moores Creek Summit	Boise	6100	1/29	91	27.3	12.5	23.7
Moose Creek	N. F. Salmon	6200	2/1	62	17.6	6.6	12.6
Morgan Creek	Salmon	7600	1/28	48	12.9	4.5	10.3
Mosquito Ridge	Coeur d'Alene	5200	1/27	80	21.2	15.2	24.5*
Mount Baldy	Big Wood	8920	2/1	67	20.3	11.3	15.2*
Mud Creek	Willow	7100	2/1	59	18.8	9.0	--
Muldoon	Little Wood	6320	1/27	19	4.3	4.5	6.2*
Packsaddle Spring	Teton	8200	1/28	77	26.4	9.0	--
Pebble Creek	Portneuf	6550	1/30	51	17.2	5.2	11.2
Phillips Bench	Teton	8200	1/28	88	27.4	15.3	17.8*
Pierce Ranger Sta.	Clearwater	3080	2/1	44	10.8	0.7	8.6
Pine Creek Pass	Teton	6810	1/28	58	15.7	6.8	12.0
Pole Creek Ranger Sta.	Jarbidge	8360	2/1	57	17.9	5.0	14.4
Prairie	Boise	4800	1/29	27	7.4	0.6	5.5
Rock Flat Summit	Payette	5310	1/29	49	12.2	7.8	13.3
Savage Pass	Lochsa	6170	1/29	79	22.2	10.0	19.1*
Sawmill Canyon	Little Lost	7000	1/29	28	6.8	3.0	6.0*
Sawtell Mountain	Henrys Fork	8720	1/27	91	28.7	15.1	22.8*
Schweitzer Bowl	Pend Oreille	4800	1/29	70	21.8	--	21.8*
Schweitzer Ridge	Pend Oreille	6200	1/29	87	31.5	20.1	32.6*
Secesh Summit	Payette	6520	1/30	94	29.7	16.4	26.3*
Sedgwick Peak	Portneuf	7850	1/30	59	18.5	--	--
Seventy-Six Creek	Jarbidge-Bruneau	7100	1/26	48	13.6	3.8	7.8
Shanghai Summit	Clearwater	4570	2/4	82	20.9	1.4	17.4*
Sheep Mountain	Willow	6570	2/1	43	11.6	4.7	9.8*
Sherwin	St Maries	3200	1/29	48	13.2	0.7	10.7
Shoshone Basin	Salmon Falls	5810	1/31	21	5.3	--	4.4*
Silver City (A)	Jordan-Owyhee	6400	1/29	52	16.6	--	11.1*
Slug Creek Divide	Blackfoot	7230	1/27	51	15.5	4.3	11.5
Soldier Ranger Sta.	Big Wood	5740	1/29	41	10.9	6.1	9.8
Somsen Ranch	Willow Creek	6840	1/26	55	13.4	4.4	10.1
South Mountain	Jordan-Owyhee	6500	1/30	46	14.6	4.0	9.9
Squaw Flat	Weiser	6240	2/3	62	18.4	10.6	--
Squaw Meadow	Payette	5900	1/30	89	29.0	16.9	25.8*
State Line	Teton	6660	1/28	45	11.9	6.5	10.0
Stickney Mill	Big Lost	7430	1/27	28	6.1	6.3	6.0*
Strawberry Creek	Mink	5820	1/28	37	9.9	3.4	7.4
Succor Creek (A)	Jordan-Owyhee	6100	1/29	26	7.8	2.8	3.8
Sulphur Peak	Blackfoot	7070	2/1	47	13.8	4.0	--
Sunset (S)	Coeur d'Alene	5540	1/26	81	23.5	8.9	--
Swede Peak	Little Wood	7640	1/27	49	12.8	8.5	12.6
Targhee Pass	Henrys Fork	6980	1/27	36	10.2	4.9	10.5*
Teton Pass W.S. (Wy)	Teton	7740	1/28	75	24.4	8.8	16.8*
Tex Creek	Willow	6650	1/29	40	8.5	4.3	6.5*
Trinity Mountain	Boise	7770	1/27	110	38.2	16.0	31.1
Twitchell Canyon	Blackfoot	6300	2/1	47	15.2	--	--
Upper Home Canyon	Montpelier	8560	1/28	76	24.1	5.2	16.3*
Valley View	Henrys Fork	6680	1/28	45	11.9	5.6	12.5
Vaught Ranch (A)	Owyhee	5830	1/29	17	5.1	T	3.2*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated. (S) Snotel ground truth reading.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Vienna Mine	Salmon	8960	1/27	107	33.4	16.2	26.1*
Webb Creek	Clearwater	4720	1/29	36	10.5	--	--
West Branch	Weiser	5560	2/1	71	19.0	11.6	--
Wet Creek Summit	Little Lost	7680	1/28	33	8.1	4.4	8.7*
Whiskey Flat	Montpelier	6960	1/27	39	10.3	2.3	6.5
White Elephant	Henrys Fork	7710	1/27	68	20.1	10.5	13.2*
Wildhorse Divide	Portneuf	6490	1/31	56	18.8	--	--
Willow Flat	Cub	6070	1/26	49	14.2	3.8	10.9
Wood Canyon Divide	Blackfoot	7450	2/1	54	16.0	3.9	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated. (S) Snotel ground truth reading.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

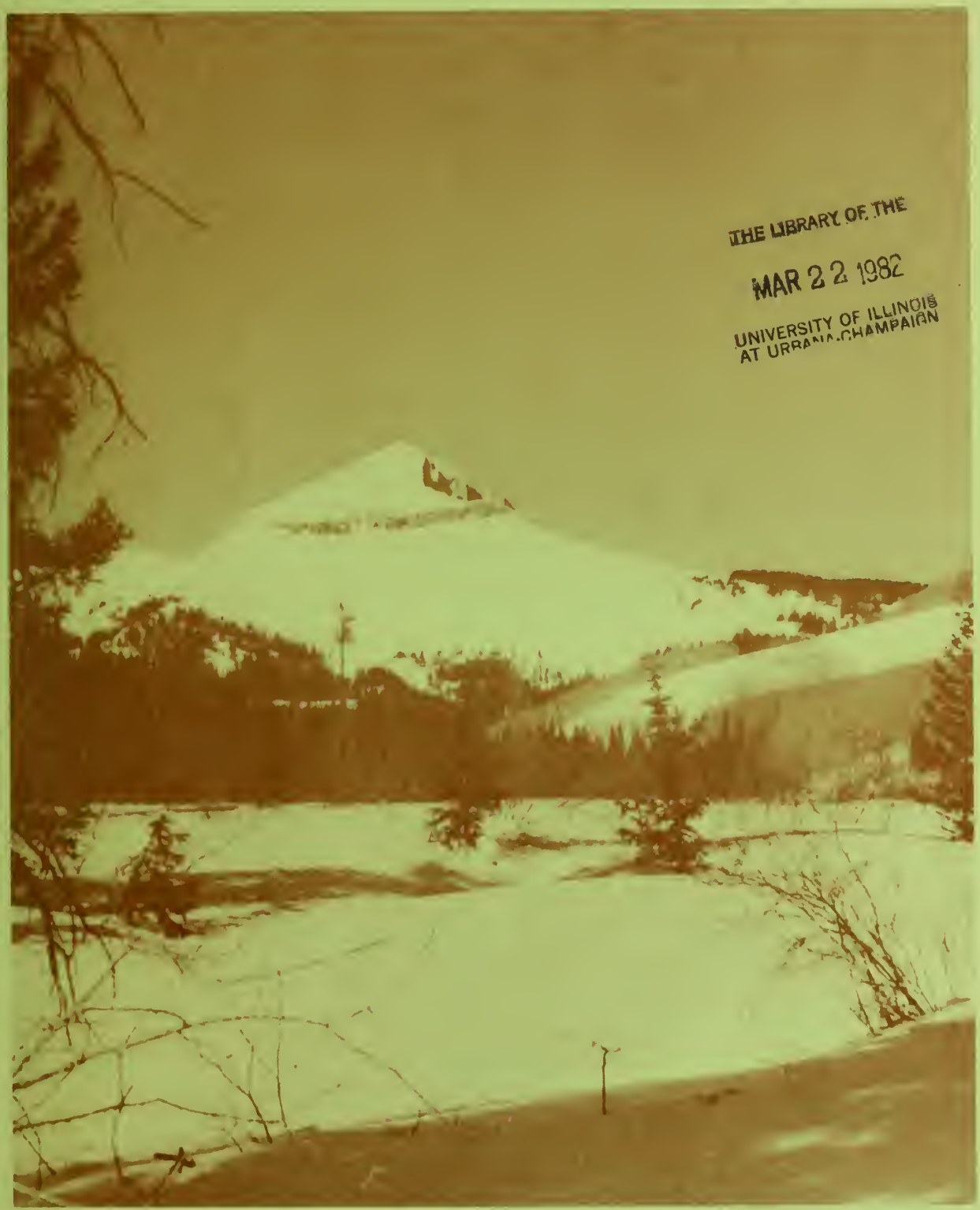
Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation , navigation , mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

S13.
6wsr

Water Supply Outlook For Idaho



THE LIBRARY OF THE
MAR 22 1982
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
Mar. 1, 1982

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Mast of the usable water in western states originates as mountain snawfall. This snowfall accumulates during the winter and spring, several manths befare the snow melts and appears as streamflaw. Since the runaff fram precipitation as snow is delayed, estimates af snawmelt runoff can be made well in advance of its occurrence. Streamflaw farecasts published in this repart are based principally an measurement af the water equivalent af the mauntain snawpack.

Farecasts become mare accurate as more af the data affecting runoff are measured. All farecasts assume that climatic factars during the remainder of the snaw accumulation and melt seasan will interact with a resultant average effect on runaff. Early seasan farecasts are therefare subject to a greater change than thase made an later dates.

The snaw course measurement is obtained by sampling snaw-depth and water equivalent at surveyed and marked lacations in mauntain areas. A total of about ten samples are taken at each locatian. The average af these are reparted as snow depth and water equivalent. These measurements are repeated in the same lacatian near the same dates each year.

Snaw surveys are made manthly ar semi-manthly fram January 1 thraugh June 1 in mast states. There are abaut 1900 snaw caurses in Western United States and in the Columbia Basin in British Columbia. Netwarks af autamatic snaw water equivalent and related data sensing devices, alang with radia telemetry are expanding and will provide a cantinuaus recard af snaw water and ather parameters at key lacatians.

Detailed data on snaw caurse and sail maisture measurements are presented in state and lacal reparts. Other data on reservair starage, summaries of precipitatian, current streamflow, and soil maisture conditians at valley elevatians are alsa included. The report for Western United States presents a broad picture of water supply outlaak conditians, including selected streamflaw forecasts, summary af snaw accumulatian to date, and storage in larger reservairs.

Snaw survey and sail maisture data far the period of record are published by the Sail Canservation Service by states about every five years. Data far the current year is summarized in a West-wide basic data summary and published abaut October 1 af each year.

COVER PHOTO: Lone Cone, near Norwood, Colorado, blanketed by its winter mantle of snow.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Canservatian Service publishes reparts fallawing the principal snaw survey dates fram January 1 through June 1 in caaperatian with state water administratars, agricultural experiment statians and others. Copies af the reparts far Western United States and all state reports may be abtained from Soil Conservatian Service, West Technical Service Center, Raam 510, 511 N.W. Broadway, Partland, Oregon 97209.

Capies af state and lacal reports may also be abtained from state affices of the Soil Canservation Service in the fallawing states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Calorado (N. Mex.)	P. O. Box 17107, Denver, Calorado 80217
Idaho	Raom 345, 304 N. 8th. St., Boise, Idaha 83702
Montana	P. O. Bax 98, Bazeman, Mantana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Partland, Oregon 97204
Utah	4420 Federal Bldg., 125 Sauth State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN

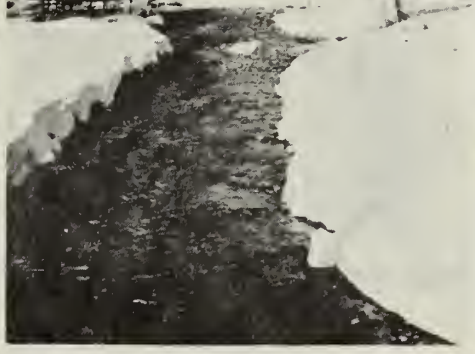
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR MARCH 1, 1982

Water supplies for 1982 are forecast to be good to excellent throughout Idaho. April through September seasonal runoff is predicted to range from 101 percent of average for the St. Joe River at Calder in Northern Idaho to 133 percent of normal for the Montpelier Creek drainage in Southeastern Idaho.

In general, snowfall during February was near to well above normal. Snowpack accumulation near March 1 varied from a low of 91 percent of average on the Beaver-Camas Creek drainages east of Dubois to a high of 146 percent on the Portneuf drainage in Southeastern Idaho. Higher than normal snow densities indicate the snowpack has warmed and settled. Continued mild temperatures may result in an earlier than normal runoff.

February started out very cold and dry and ended mild and very wet with numerous rivers and streams flooding from both the rain and low elevation snowmelt. However, low elevation snowpack still remains near or above normal in most areas.

Precipitation across Idaho continued well above normal. The average for the month was 161 percent of normal with a range from 96 percent at Grace to 201 percent at Porthill. For the water year the State stands at 148 percent with all areas above 100 percent.

Temperatures across the State range from near normal in the extreme north to 8 degrees below normal at Twin Falls.

Soils are not frozen and soil moisture conditions are saturated at the low and middle elevations and are wet in the higher elevations.

Rain and melting snow has improved the reservoir storage conditions. Some reservoirs have already been filled to or near capacity. Storage at the beginning of the irrigation season is expected to be good to excellent.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

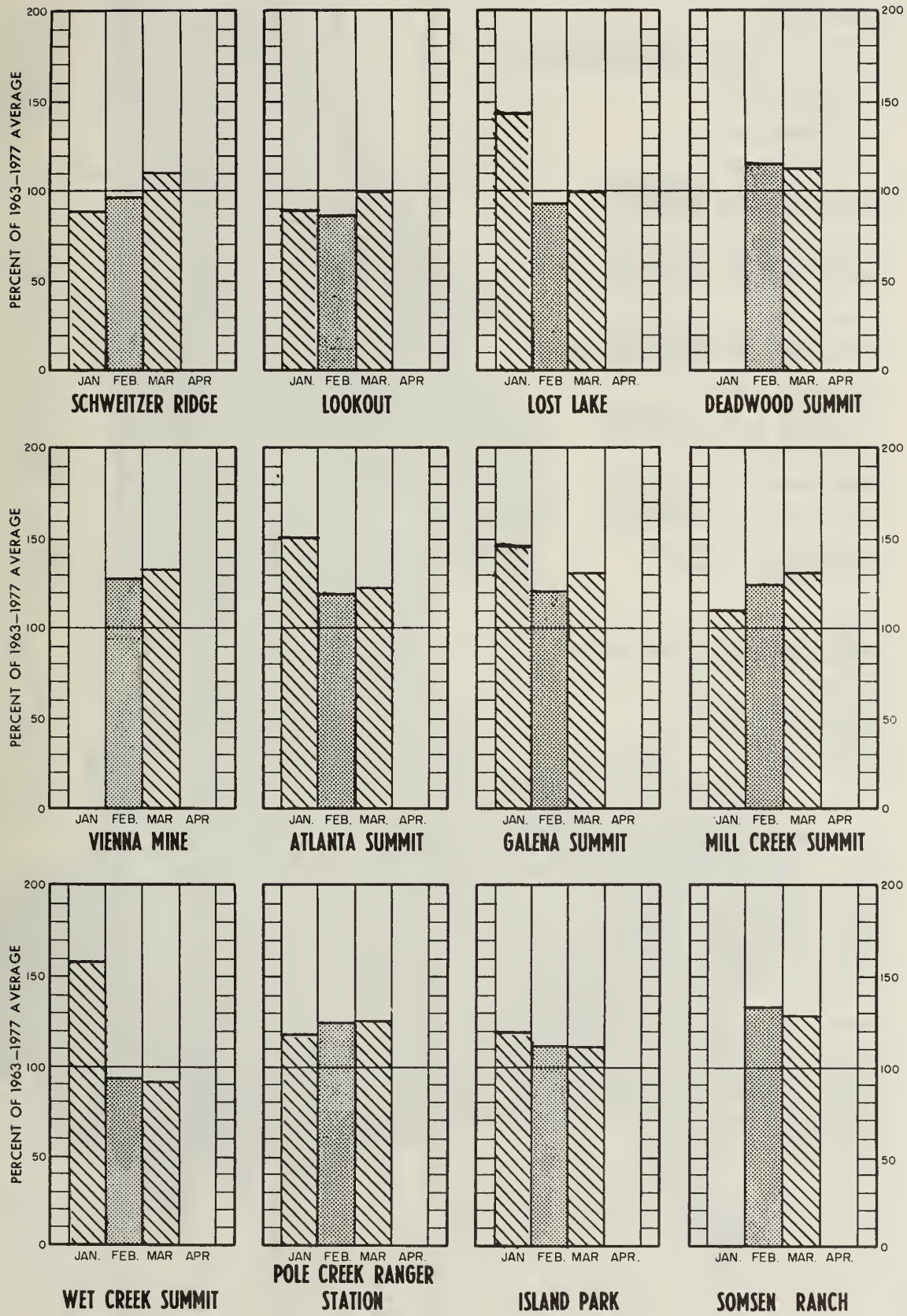
DRAINAGE DIVISIONS	Winter Feb. 1982		Fall - Winter Nov. 81 - Feb. 82	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	3.24	+ 1.25	12.44	- .79
Flathead	3.17	+ 1.43	10.91	+ .71
Clark Fork	2.15	+ .88	8.62	+ 1.84
Pend Oreille-Spokane	4.62	+ 1.78	16.26	+ 1.24
Upper Snake	2.01	+ .16	11.70	+ 3.11
Snake River Plain	1.04	+ .26	5.74	+ 1.44
Salmon-Payette-Boise	3.38	+ 1.63	14.85	+ 4.79
Clearwater	3.70	+ .83	16.87	+ 1.95
Owyhee-Malheur	1.26	+ .41	8.15	+ 3.33

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1963-1977) drainage division average.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

MARCH 1, 1982



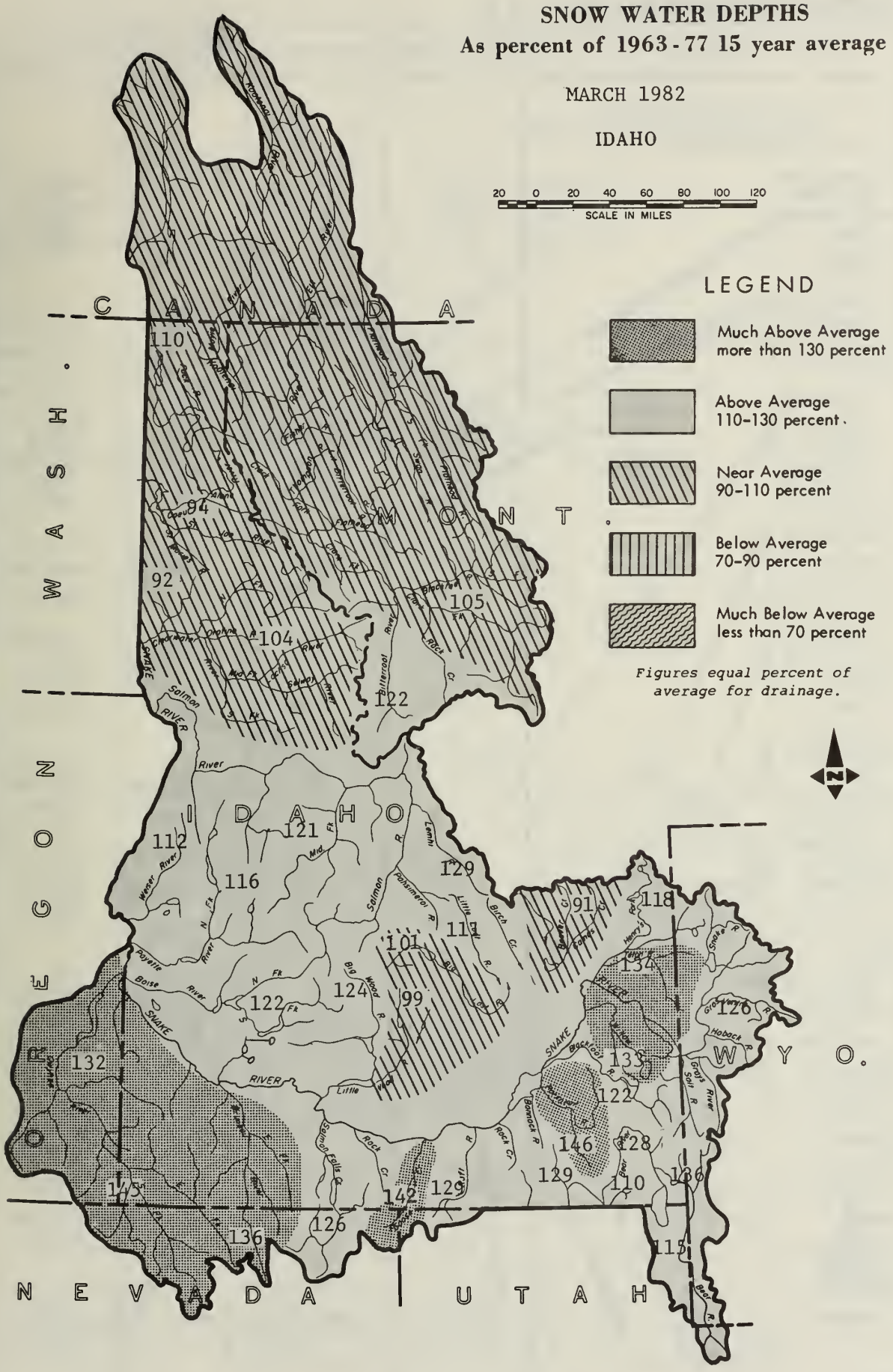
COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN			
Kootenai River	36	157	106
Pend Oreille River	131	169	106
Clark Fork River	88	193	109
Flathead River	43	143	101
Priest River	5 - 6	170	110
Spokane River	12	221	99
Hayden Creek	4	1196	--
LOWER SNAKE RIVER BASIN			
Palouse River	3	--	92
Clearwater River	15 - 17	218	104
Salmon River	20 - 24	179	121
Lemhi River	6	209	129
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5 - 6	157	111
Big Lost River	9	129	101
Fish Creek	2	125	96
Little Wood River	4	125	99
Big Wood River	11 - 13	182	124
Boise River	16 - 19	232	122
Canyon Creek	3	345	148
Payette River	14 - 17	175	116
Weiser River	2 - 3	173	112
Mann Creek	1 - 4	152	116
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	5 - 7	234	129
Goose-Trapper Creek	3 - 5	261	142
Salmon Falls Creek	10	322	126
Bruneau River	5	311	136
Owyhee River	6	452	145
Jordan Creek	3	307	132
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	18	236	126
Camas-Beaver Creeks	2	119	91
Henrys Fork River	11	171	118
Teton River	9	228	134
Willow Creek	5 - 9	223	133
Blackfoot River	3 - 6	241	122
Portneuf River	4 - 10	314	146
GREAT BASIN			
Bear River - Upper	4	238	115
Bear River - Lower	14	278	124
Montpelier Creek	6	271	136
Mink Creek	7	285	128
Cub River	3 - 4	229	110
Malad River	4 - 6	316	129

SNOW WATER DEPTHS
As percent of 1963-77 15 year average

MARCH 1982

IDAHO



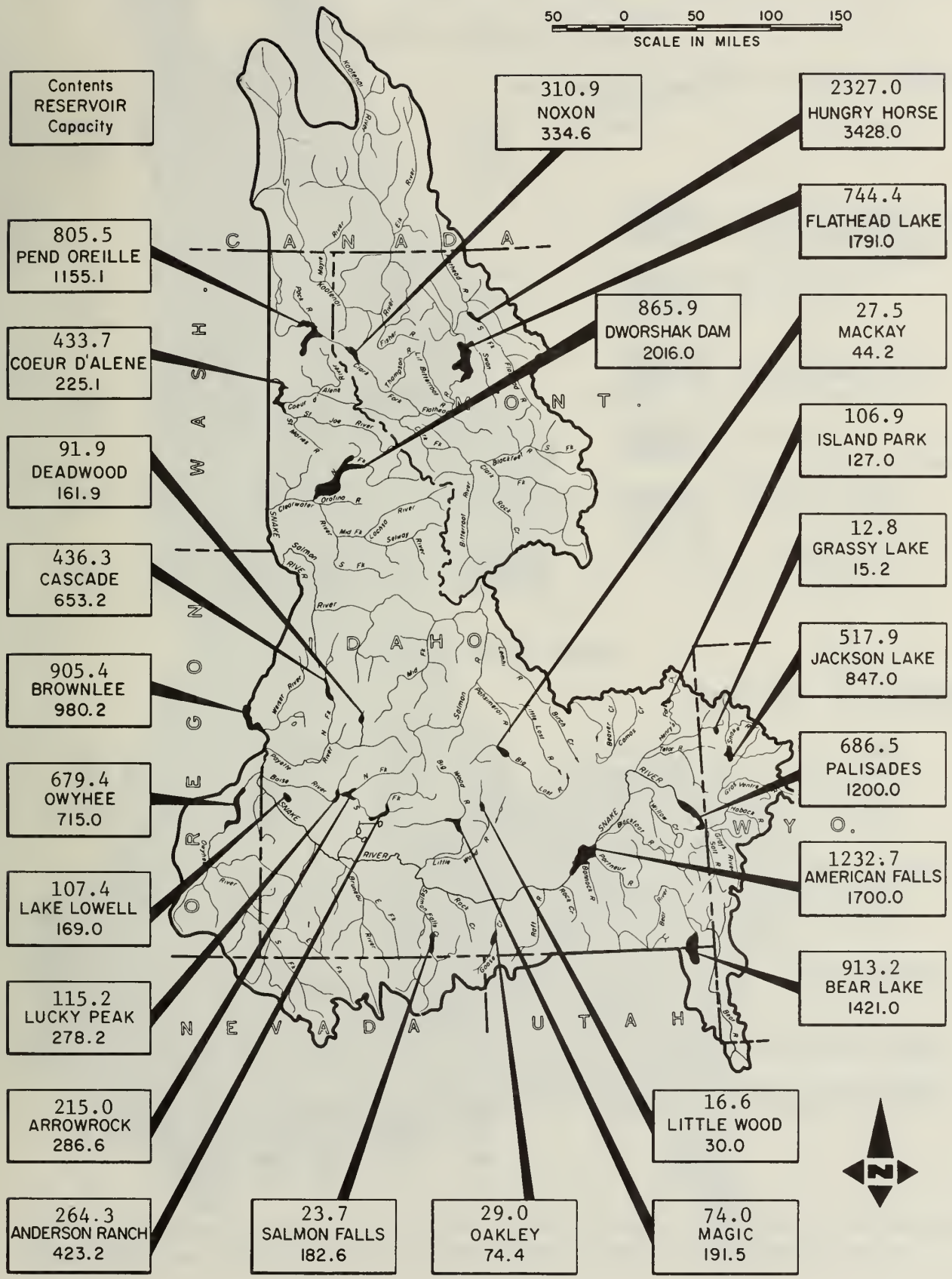
RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2327.0	2769.0	2200.0
Flathead	1791.0	744.4	858.2	994.6
Pend Oreille	1155.1	805.5	896.7	376.0
Noxon	334.6	310.9	318.2	299.1
Spokane				
Coeur d'Alene	225.1	433.1	217.5	121.6
SNAKE BASIN				
Snake				
Jackson Lake	624.1	517.9	556.3	615.6
Palisades	1200.0	686.5	1123.8	903.6
American Falls	1673.0	1232.7	1512.3	1241.9
Island Park	127.0	106.9	122.3	114.6
Grassy Lake	15.2	12.8	12.6	10.6
Brownlee	980.2	905.4	734.2	465.2
Goose-Trapper Creeks				
Oakley	74.4	29.0	28.9	29.3
Salmon Falls Creek				
Salmon Falls	182.6	23.7	55.1	55.5
Big Lost				
Mackay	44.2	27.9	43.8	32.4
Big Wood				
Magic	191.5	74.0	120.0	113.9
Little Wood				
Little Wood	30.0	16.6	21.9	17.8
Fish Creek				
Carey Valley	14.4	5.7	8.4	--
Boise				
Anderson Ranch	423.2	264.3	292.2	256.5
Arrowrock	286.6	215.0	281.1	251.4
Lucky Peak	278.2	115.2	231.4	87.1
Lake Lowell (Deer Flat)	169.0	107.4	120.9	132.6
Owyhee				
Owyhee	715.0	679.4	562.9	491.3
Payette				
Cascade	653.2	436.3	578.7	338.8
Deadwood	161.9	91.9	114.8	85.9
Weiser				
Mann Creek	11.1	9.4	9.3	--
Clearwater				
Dworshak	2016.0	865.9	1510.5	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	913.2	1052.9	1030.6

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1982



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	9300	105	Apr-Sep	--	8858
		8090	105	Apr-Jul	--	7708
		6460	105	Apr-Jun	--	6144
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	14700	107	Apr-Sep	--	13781
		13400	107	Apr-Jul	--	12519
		11400	107	Apr-Jun	--	10633
Priest River						
Priest River 1/	(at)	1060	118	Apr-Sep	--	895
		996	118	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	3114	107	Apr-Sep	--	2910
St. Joe River						
Calder	(at)	1380	105	Apr-Sep	--	1309
		1300	105	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1121	124	Apr-Sep	--	903
Palisades Inflow 3/		4777	124	Apr-Sep	--	3863
Heise 4/	(nr)	5093	120	Apr-Sep	--	4247
Blackfoot 5/	(nr)	5450	119	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	765	104	Apr-Sep	--	737
Rexburg 7/	(nr)	1750	115	Apr-Sep	--	1534
Portneuf River						
Topaz	(at)	140	130	Mar-Sep	--	108
Oakley Reservoir Inflow		45	125	Mar-Sep	--	36
Salmon Falls Creek						
San Jacinto	(nr)	119	125	Mar-Sep	--	95
		113	126	Mar-Jul	--	90
		108	127	Mar-Jun	--	85

(c) Assuming normal meteorological conditions.

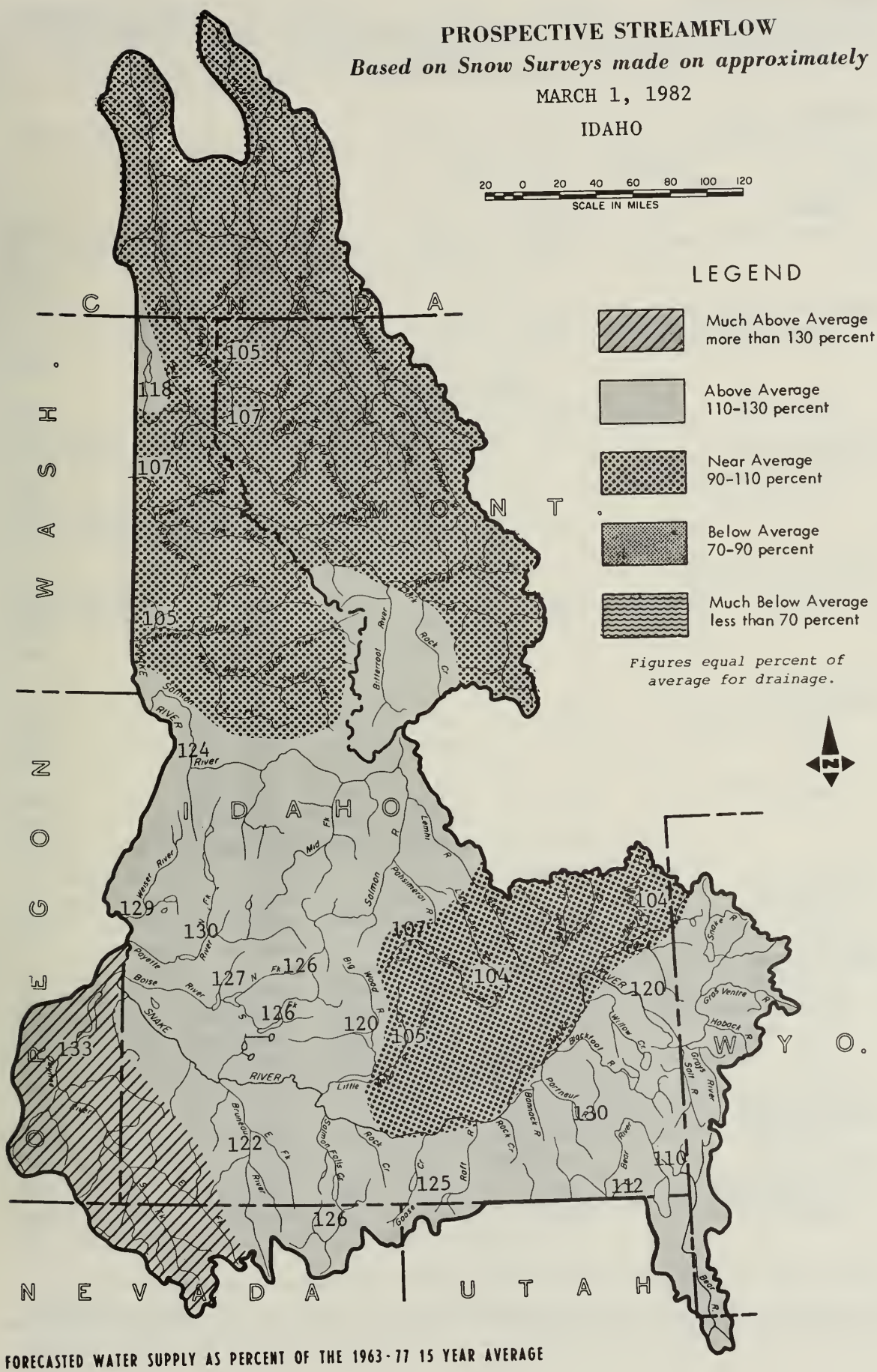
+ 1963-1977 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MARCH 1, 1982

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Bruneau River						
Hot Springs	(nr)	305	122	Mar-Sep	--	251
Little Lost River						
Howe	(nr)	47	104	Apr-Sep	--	45
Wet Creek	(bl)	41.7	102	Apr-Sep	--	41
		26.5	102	Apr-Jun	--	26
Big Lost River						
Howell Ranch	(at)	241	107	Apr-Sep	--	225
		165	107	Apr-Jun	--	154
Mackay 8/	(nr)	216	106	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		397	120	Apr-Sep	--	319
Inflow 9/		360	119	Apr-Jul	--	303
		398	120	Mar-Jul	--	332
Little Wood River						
Carey	(nr)	113	106	Apr-Sep	--	107
		104	105	Apr-Jul	--	99
		91	105	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	924	126	Apr-Sep	--	733
		852	126	Apr-Jul	--	676
Boise 10/	(nr)	2100	127	Apr-Sep	--	1656
		1950	127	Apr-Jul	--	1536
		1727	127	Apr-Jun	--	1360
South Fork						
Anderson Dam 11/	(at)	783	126	Apr-Sep	--	622
Owyhee River						
Gold Creek., Nev. 12/	(nr)	28	128	Apr-Jul	--	23
Owyhee, Nev. 12/	(nr)	92	115	Apr-Jul	--	80
Lake Owyhee		520	133	Apr-Sep	167	392
net inflow 13/		670	131	Mar-Jul	185	510
Payette River						
Horseshoe Bend 14/	(nr)	2415	130	Apr-Sep	--	1860
North Fork						
Cascade 15/	(at)	711	126	Apr-Sep	--	564
Banks 15/	(nr)	915	126	Apr-Sep	--	726

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Weiser River						
Weiser	(nr)	572	129	Apr-Sep	--	442
		721	129	Mar-Sep	--	558
Salmon River						
Whitebird	(at)	8940	124	Apr-Sep	--	7196
Clearwater River						
Spalding	(at)	9140	105	Apr-Sep	--	8672
GREAT BASIN						
BEAR RIVER						
Harer	(at)	366	110	Apr-Sep	--	332
Montpelier Creek						
Montpelier	(nr)	16.5	133	Apr-Sep	--	12.4
Cub River						
Preston	(nr)	56	112	Apr-Sep	--	50
		53	113	Apr-Jul	--	47

1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake.
3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades.
5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
8/ Observed flow corrected for storage in Mackay Reservoir.
9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
10/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
11/ Corrected for storage in Anderson Ranch Reservoir.
12/ Corrected for storage in Wildhorse Reservoir.
13/ From BUR records of inflow.
14/ Corrected for storage in Cascade and Deadwood Reservoirs.
15/ Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Above Burke	Coeur d'Alene	4100	2/25	51	18.1	9.0	22.9*
Above Gilmore	Lemhi	8320	2/26	34	9.8	5.7	8.2
Allen Ranch	Blackfoot	6470	3/2	37	11.5	--	--
Antelope Ridge	Owyhee	6180	2/27	26	10.8	0.0	6.9*
Aspen Grove	Willow	6500	2/24	43	16.6	8.0	10.7*
Aspen Hall Pass (A)	Lemhi	8200	2/26	39	11.8	6.4	8.5*
Atlanta Summit	Boise	7600	2/26	107	38.3	17.8	31.2*
Atlanta Townsite	Boise	5280	2/25	40	12.6	5.6	--
Austin Bros. Ranch	Blackfoot	6400	3/2	32	10.0	4.4	8.3
Bad Bear	Boise	4940	3/1	43	15.9	6.5	13.5
Badger Gulch	Trapper	6660	2/25	45	16.6	4.7	10.7
Banner Summit	Payette	7040	2/25	87	27.1	19.1	--
Battle Creek (A)	Owyhee	5710	2/24	6	2.3	0.0	3.2
Bear Basin	Little Salmon	5350	2/25	55	17.0	11.2	--
Bear Canyon	Big Lost	7900	2/25	56	16.8	13.2	15.9
Bear Creek (Nv)	Jarbidge	8040	2/26	59	23.0	7.9	18.0*
Bear Mountain	Clark Fork	5400	2/26	145	61.8	37.4	53.7*
Bear Saddle	Mann Creek	6180	2/25	70	25.0	16.5	--
Beaverdam Creek	Portneuf	6120	2/27	29	11.6	4.4	--
Bennett Mountain	Canyon Creek	6560	2/27	53	19.4	6.9	15.0*
Benton Meadow	Priest	2370	2/25	19	7.4	0.0	6.4
Benton Spring	Priest	4920	2/25	45	15.8	8.8	17.7
Big Creek Summit	Salmon	6580	2/25	113	40.2	21.0	31.6
Big Springs	Henrys Fork	6400	2/26	55	20.2	12.1	18.7
Birch Creek	Willow	6800	2/24	37	13.7	5.4	10.7*
Black Canyon	Henrys Fork	7960	2/26	91	36.6	22.2	29.9*
Black Moose	Henrys Fork	8160	2/26	100	40.2	21.8	36.1*
Blue Ridge	Blackfoot	6780	2/25	62	24.3	10.3	--
Bogus Basin	Payette	6340	3/1	61	22.5	9.3	20.7
Bogus Basin Road	Boise	5540	3/1	19	7.6	0.0	5.8
Bone	Willow	6200	2/25	25	8.6	3.4	7.4*
Borah (A)	Pahsimeroi	8250	2/26	16	5.0	3.0	--
Bostetter Rgr. Sta.	Trapper	7500	2/25	62	23.8	7.9	17.1
Boulder Creek	Weiser	5440	3/1	64	24.2	13.2	21.8
Boy Scout Camp	Raft	7740	2/25	42	13.9	7.7	12.8
Breezy Saddle	Clearwater	5010	2/26	81	25.1	12.0	--
Brockman Station	Willow	6430	2/24	33	13.6	5.9	--
Brundage Mountain	Little Salmon	7560	2/25	140	51.0	26.0	40.6*
Bruno Creek	Salmon	7920	3/2	72	23.5	--	--
Bull Basin (A)	Owyhee	5480	2/24	T	0.1	0.0	1.2
Camas Creek Divide	Big Wood	5710	2/27	42	15.3	4.7	10.0*
Camp Creek	Beaver	5780	2/25	28	8.1	6.8	9.8
Cayuse Airstrip	Clearwater	3500	2/26	38	10.5	1.6	12.0
Cedar Creek	Cedar	6820	2/26	27	9.2	3.9	9.3
Chilco Ridge	Hayden	3650	2/23	12	5.6	0.0	--
Chimney Creek	Big Wood	6400	2/27	47	16.9	8.5	--
Christensen Ranch	Mink	5560	2/23	27	9.5	5.0	7.9
Clear Creek Meadows	Raft	9420	2/25	68	23.0	13.6	19.1
Cliff Canyon	Malad	7200	2/23	29	10.0	3.0	--
Cold Springs	Portneuf	7000	3/4	72	25.2	--	--
Conie Ridge	Hayden	3900	2/23	15	6.7	0.0	--
Copes Camp	Lemhi	7520	2/26	33	9.2	2.9	6.6
Copper Basin	Big Lost	7640	2/25	22	7.5	6.7	8.4
Copper Ridge	Coeur d'Alene	4820	2/24	62	25.2	7.6	25.1
Corner Creek	Hayden	3150	2/23	3	1.6	0.0	--
Couch Summit	Boise	6840	2/27	55	18.4	8.6	16.9*
Cozy Cove	Deadwood	5380	2/25	48	14.6	10.5	15.2*
Crater Meadows	Clearwater	5960	2/26	115	39.0	17.6	38.9
Crawford Rgr. Sta.	Payette	4860	2/25	20	7.5	3.5	7.7
Crooked Fork	Lochsa	3610	2/26	41	13.5	4.6	12.7*
Cub River Rgr. Sta.	Cub	5450	2/23	23	8.4	4.9	8.4
Daniels Creek	Malad	6270	2/23	23	7.1	3.7	--
Darby Canyon (Wy)	Teton	8250	2/26	68	24.2	11.3	19.8*
Deadline	Salmon Falls	7400	2/26	56	21.8	8.9	18.8
Deadline South	Salmon Falls	7450	2/26	62	23.6	9.8	--
Deadman Gulch	Boise	5600	2/28	51	19.2	5.8	14.7*
Deadwood Airstrip	Deadwood	5360	2/25	44	14.1	11.9	14.4
Deadwood Summit	Deadwood	6860	2/25	120	46.6	30.6	41.3*
Dempsey Creek	Portneuf	6100	2/27	39	15.1	4.3	11.0
Dollarhide Summit	Big Wood	8420	2/25	86	27.9	15.0	21.1
Double Springs Pass (A)	Pahsimeroi	8380	2/26	39	11.9	4.8	8.7*
Dry Basin	Mink	7820	2/23	82	29.5	11.6	24.2*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE Name & Drainage		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average
Dry Creek Flat	Malad	6360	2/23	25	9.3	0.8	7.4
Dry Fork	Big Lost	7220	2/24	46	15.2	10.6	14.6*
East Creek	Portneuf	7000	2/27	46	18.0	4.1	--
East Twin	Palouse	4130	2/25	29	11.8	0.0	10.8
Elk Butte	Clearwater	5550	2/26	100	31.7	14.2	34.7
Emigrant Summit	Bear	7390	2/24	78	29.4	8.5	21.7
Emigration Canyon	Bear	6500	2/24	35	11.4	5.0	9.7
Fairview Guard Sta.	Little Lost	6750	3/1	20	5.7	3.2	4.2
Fish Lake Airstrip	Lochsa	5650	2/26	104	36.3	17.3	36.3
Fishpole Lake	Big Lost	9300	2/25	60	19.5	14.7	17.3*
Forty-nine Meadows	Clearwater	4830	2/26	72	23.8	11.9	27.2
Fourth of July Summit	Coeur d'Alene	3200	2/25	23	6.4	0.0	8.9
Fox Creek (Nv)	Jarbidge	6750	2/26	31	12.5	3.6	9.7
Franklin Basin	Cub	8040	2/23	70	26.2	9.9	22.7
Franklin Basin (S)	Cub	8170	2/23	83	30.2	--	--
Freds Mountain (Wy)	Teton	8150	2/25	79	28.1	12.1	16.9*
Galena	Big Wood	7440	3/1	71	22.6	12.7	17.0
Galena Summit	Big Wood	8780	3/1	86	26.9	14.4	20.6
Garfield Rgr. Sta.	Little Wood	6560	3/2	28	8.7	8.5	9.8
George Creek (Ut)	Raft	8840	2/25	68	23.7	8.7	--
George Peak	Raft	9000	2/25	79	31.8	--	--
Gibbons Pass (Mt)	Bitterroot	7100	2/23	78	26.8	16.5	21.2
Giveout	Montpelier	6860	2/24	47	14.9	6.1	11.1
Goat Creek (Nv)	Salmon Falls	8880	2/26	57	21.3	5.6	15.7
Graham Guard Sta.	Boise	5690	2/25	50	17.9	7.9	--
Graham Ranch	Big Wood	6270	3/1	47	13.8	9.5	12.8
Grassy Lake (Wy)	Henrys Fork	7265	2/24	105	39.1	20.3	30.6
Hall Creek	Lemhi	7560	2/26	23	6.6	2.3	4.8*
Halverson Creek	Kootenai	4850	2/26	120	53.0	35.2	39.1
Hemlock Butte	Clearwater	5810	2/26	133	43.4	18.1	43.6*
Hilts Creek	Little Lost	8000	2/25	39	11.8	7.8	--
Hoodoo Basin (Mt)	Clark Fork	6000	2/25	137	49.9	30.6	45.4*
Hoodoo Creek (Mt)	Clark Fork	5900	2/25	130	47.5	25.8	42.0*
Horseshoe Basin	Bear	8000	2/23	72	27.5	10.9	22.0*
Howell Canyon	Marsh Creek	7980	2/25	91	35.7	9.0	22.1
Humboldt Gulch	Couer d'Alene	4250	2/25	42	13.6	--	--
Hummingbird Springs (Nv)	Jarbidge	8870	2/26	75	27.4	8.9	19.5
Hyde Pasture (A) (Or)	Jordan-Owyhee	5760	2/24	18	6.8	0.1	5.3
Hyndman Creek	Big Wood	7440	2/26	48	12.7	10.8	--
Idaho City Townsite	Boise	4000	3/1	22	8.8	--	--
Indian Grove	Raft	7560	2/25	30	9.7	5.2	--
Indian Meadows	Teton	8240	2/26	116	44.4	20.5	30.9*
Iron Bog	Big Lost	7650	2/24	37	11.0	10.3	12.8*
Iron Mine Creek	Fish Creek	6300	3/2	32	9.7	8.3	9.9
Irving Creek	Medicine Lodge	7035	2/24	20	3.9	4.1	5.2*
Island Park	Henrys Fork	6290	2/26	50	16.7	11.6	15.1
Jackpine Creek (Wy)	Teton	7350	2/26	64	23.2	9.9	19.6*
Jackson Peak	Boise	7070	2/25	86	30.8	17.6	27.3
Johnson Creek	Blackfoot	6730	3/2	43	13.1	5.6	--
Kellogg Peak (A)	Coeur d'Alene	5560	2/25	72	27.3	8.9	28.2*
Kilgore	Camas Creek	6320	2/27	32	10.4	8.8	10.6
Kit Carson Pasture	Selway	4950	2/25	34	11.7	5.1	--
Kruze Meadow	Clearwater	4780	3/1	32	11.9	--	--
Lake Fork	Payette	5290	2/24	47	14.8	8.7	14.6
Langford Flat Creek	Salmon Falls	5980	2/26	17	6.6	--	--
Latham Springs	Henrys Fork	7630	2/26	85	34.0	20.0	28.6
Lava Creek	Willow	7350	2/24	60	20.8	8.0	--
Leadbelt	Big Lost	6700	2/24	16	6.4	7.2	8.6
Leatherman Pass	Pahsimeroi	9860	2/26	61	20.3	14.4	20.2*
Lemhi Pass (Mt)	Beaverhead	7480	2/26	30	8.8	5.0	8.1
Lemhi Ridge (Mt)	Beaverhead	8100	2/26	38	10.8	6.2	8.9*
Liberty Spring	Mink	8600	2/23	124	46.9	13.7	32.7
Little Beaver	Montpelier	6970	2/24	56	18.5	8.0	14.0
Little Camas Flat	Boise	4940	2/27	27	10.9	1.6	5.9*
Logger Springs	Raft	8120	2/25	52	15.8	7.6	--
Lolo Pass	Lochsa	5240	2/25	83	31.8	12.9	27.5
Lookout	Coeur d'Alene	5140	2/25	85	30.6	16.6	31.0
Lost Garfield	Little Lost	6600	3/1	17	4.8	3.4	3.7
Lost Lake	Clearwater	6110	2/26	147	49.7	25.7	50.0*
Lost Wood Divide	Big Lost	7900	2/26	71	23.1	14.2	20.4*
Lower Elkhorn	Portneuf	6960	2/23	49	18.1	5.5	12.7*
Lower Home Canyon	Montpelier	7640	3/1	46	15.5	6.4	12.2*
Lower Pebble	Portneuf	5780	2/27	50	19.5	3.8	12.3*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Lower Sands Creek	Coeur d'Alene	3120	2/24	45	15.2	4.1	17.5*
Lucky Dog	Henrys Fork	6860	2/26	73	27.8	16.0	22.1
Magic Mountain	Rock Creek	6880	2/26	57	22.2	9.0	16.4
Mann Creek	Weiser	6080	2/25	70	24.8	--	22.5*
Mascot Mine	Big Wood	7780	2/26	49	14.8	10.5	13.1
McRenolds Reservoir	Teton	6720	2/26	53	18.5	10.1	17.4*
Meadow Lake	Lemhi	9150	2/26	57	17.8	10.9	16.5
Mill Creek Summit	Salmon	8800	2/23	81	26.5	12.4	20.3
Mink Creek	Portneuf	6410	2/28	59	24.6	8.8	15.5
Montpelier Creek	Montpelier	6540	2/24	32	10.0	3.1	7.5
Moonshine	Little Lost	7440	3/1	36	10.1	5.4	9.3
Moores Creek Summit	Boise	6100	3/1	95	31.5	14.9	28.6
Moose Creek	North Fork Salmon	6200	2/26	59	19.8	12.6	15.6
Morgan Creek	Salmon	7600	2/26	47	14.7	7.9	12.8
Morse Creek Sawmill	Salmon	7120	2/26	31	9.2	--	--
Moscow Mountain	Palouse	4410	2/25	46	16.8	4.1	15.6
Mosquito Ridge (A)	Coeur d'Alene	5200	2/25	106	38.3	23.3	34.6
Mount Baldy	Big Wood	8920	2/27	74	23.2	13.6	18.4
Mud Creek	Willow	7100	2/25	67	23.6	13.3	--
Mud Flat	Owyhee	5730	2/27	24	9.0	1.6	6.0*
Muldoon	Little Wood	6320	3/2	15	5.1	5.4	7.6
Nez Perce Pass (Mt)	Bitterroot	6570	2/25	55	19.5	8.5	15.7
North Putnam	Ross Fork	7240					
One Mile Summit	Raft	7330	2/25	13	4.3	2.5	6.1
Oxford Mountain	Malad	6800	2/23	34	11.6	4.3	9.4
Oxford Spring	Malad	6740	2/23	38	12.8	3.4	--
Packsaddle Spring	Teton	8200	3/2	82	32.7	14.3	--
Pebble Creek	Portneuf	6400	2/27	48	18.5	5.6	14.5
Perreau Meadows	Salmon	8500	3/1	54	17.7	8.8	--
Phillips Bench (Wy)	Teton	8200	2/25	97	34.7	11.5	23.2*
Pierce Rgr. Sta.	Clearwater	3080	3/1	32	11.7	1.6	10.9
Pine Creek Pass	Teton	6810	2/25	57	20.0	8.8	15.6
Placer Creek	Weiser	5860	2/26	56	18.8	12.8	16.5
Pole Creek Rgr. Sta.	Jarbidge	8360	2/26	60	23.2	7.8	18.6
Prairie	Boise	4800	2/27	19	7.0	0.0	5.8
Putnam	Portneuf	7220	3/4	71	23.8	--	--
Rammel Mountain	Teton	8240	2/26	112	42.7	19.1	--
Red Canyon (A)	Owyhee	6520	2/24	21	8.0	0.1	6.6
Redfish Lake Flat	Salmon	6560	2/24	40	13.4	6.5	8.9*
Robinson Creek Ridge	Weiser	6220	2/25	51	20.2	--	18.4*
Rock Flat Summit	Payette	5310	2/25	48	16.2	11.5	16.7
Roland Summit (A)	St. Joe	5120	2/25	93	30.0	11.4	31.3
Sage Creek Saddle	Spokane	4080	2/23	45	17.2	2.6	--
Savage Pass	Lochsa	6170	2/26	82	29.0	15.0	24.1
Sawmill Canyon	Little Lost	7000	3/1	30	8.4	4.9	6.9
Sawtell Mountain	Henrys	8720	2/26	93	33.6	21.0	28.4*
Schwartz Lake	Lemhi	8540	2/26	49	15.9	6.0	10.8*
Schweitzer Basin	Pend Oreille	6090	3/2	129	46.9	--	--
Schweitzer Bowl	Pend Oreille	4800	3/2	78	31.2	--	28.1*
Schweitzer Ridge	Pend Oreille	6200	3/2	118	44.6	29.2	40.3*
Secesh Summit	Payette	6520	2/24	110	41.2	21.6	30.9*
Sedgwick Peak	Portneuf	7850	2/27	63	24.6	7.3	--
Seventy-Six Creek (Nv)	Jarbidge-Bruneau	7100	2/26	47	17.5	5.1	10.4
Shanghai Summit	Clearwater	4570	2/28	71	23.8	5.4	24.1
Sheep Mountain	Willow	6570	2/25	48	16.0	6.4	12.5*
Sherwin	St. Maries	3200	2/26	40	14.2	2.6	13.3
Shoshone Basin	Salmon Falls	5810	2/26	15	5.9	0.0	5.3
Silver City	Jordan-Owyhee	6400	2/27	44	16.8	5.6	13.7
Skitwish Ridge	Coeur d'Alene	5110	2/24	71	28.5	--	--
Slug Creek Divide	Blackfoot	7230	2/24	52	17.3	8.0	14.8
Soldier Rgr. Sta.	Big Wood	5740	2/27	39	12.5	6.4	11.5
Somsen Ranch	Willow Creek	6840	3/2	51	16.3	6.7	12.7
South Mountain	Jordan-Owyhee	6500	2/28	40	15.4	6.2	11.6
Squaw Flat	Weiser	6240	2/24	68	22.5	11.9	--
Squaw Meadow	Payette	5900	2/24	104	39.6	22.4	31.9
State Line	Teton	6660	2/25	44	14.4	8.3	12.7
Stickney Mill	Big Lost	7430	2/26	26	7.6	7.4	8.3
Strawberry Creek	Mink	5820	2/24	30	10.9	4.1	9.6
Strawberry Mink Divide	Mink	6720	2/23	61	21.0	7.5	18.7
Sturgill Ridge	Weiser	6680	2/25	84	30.6	--	26.1*
Sublett	Raft	5950	2/25	39	14.0	4.2	10.1
Succor Creek (A)	Jordan-Owyhee	6100	2/24	14	5.3	3.5	5.6
Sulphur Peak	Blackfoot	7070	3/2	46	15.3	6.5	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average
Sunset (A)	Coeur d'Alene	5540	2/25	112	39.1	22.9	32.6*
Swede Peak	Little Wood	7640	3/2	57	17.2	11.2	15.2
Targhee Pass	Henrys Fork	6980	2/25	36	10.7	7.6	13.6*
Telfer Ranch	Fish Creek	5840	3/2	20	7.3	5.3	7.8
Teton Pass W.S. (Wy)	Teton	7740	2/25	80	29.6	11.3	21.0*
Tex Creek	Willow	6650	2/24	36	11.5	6.4	8.5*
Thorson Cabin	Weiser	5320	2/25	46	16.2	--	12.3*
Toponce	Portneuf	6160	3/4	56	22.6	--	--
Trinity Mountain	Boise	7770	2/26	121	45.3	20.7	38.2
Tripod Summit	Payette	5260	2/25	53	18.7	10.5	16.7
Twin Peaks (A)	Salmon	9190	2/26	72	23.6	11.9	23.0*
Twitchell Canyon	Ross Fork	6300	3/3	44	15.8	--	--
Upper Elkhorn	Portneuf	7140	2/23	60	20.3	6.9	16.4*
Upper Home Canyon	Montpelier	8560	3/1	77	28.1	10.4	19.9*
Valley View	Henrys Fork	6680	2/25	45	14.6	9.2	15.6
Vaught Ranch (A)	Owyhee	5830	2/24	T	0.1	0.0	4.1*
Vienna Mine	Salmon	8960	2/25	117	42.7	20.1	32.1
Vi Pont	Goose	7670	2/25	50	17.3	6.5	12.9*
War Eagle (A)	Jordan-Owyhee	7280	2/24	60	22.8	16.4	19.6*
Webb Creek	Clearwater	4720	3/1	32	12.1	0.0	--
Webber Creek	Medicine Lodge	6700	2/24	20	4.4	4.0	--
West Branch	Weiser	5560	3/1	72	25.0	--	--
West Twin	Palouse	4220	2/25	25	9.8	0.0	9.4
Wet Creek Summit	Little Lost	7680	2/25	34	9.7	7.4	10.7
Whiskey Flat	Montpelier	6960	2/24	40	12.6	2.8	8.5
White Elephant	Henrys Fork	7710	2/26	71	25.3	14.7	18.4*
Wildhorse Divide	Portneuf	6490	2/28	56	23.2	7.8	--
Williams Creek Summit	Salmon	7990	3/1	40	11.6	5.2	11.1
Willow Flat	Cub	6070	2/23	42	14.9	6.2	13.9
Wilson Creek (Nv)	Salmon Falls	7500	2/26	35	13.0	T	11.0
Wood Canyon Divide	Blackfoot	7450	3/2	57	19.7	6.9	--
Worm Creek	Cub	6620	2/23	50	16.9	8.0	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation , navigation , mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

ln 360.2

Water Supply Outlook For Idaho

THE LIBRARY OF THE
APR 22 1982
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
April 1, 1982

IMPORTANT NOTICE INSIDE

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snaw melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its accurrence. Streamflaw farecasts published in this repart are based principally on measurement of the water equivalent af the mountain snawpack.

Forecasts become more accurate as mare of the data affecting runaff are measured. All farecasts assume that climatic factors during the remainder of the snow accumulation and melt seasan will interact with a resultant average effect an runaff. Early season forecasts are therefore subject to a greater change than thase made an later dates.

The snow caurse measurement is abtained by sampling snow depth and water equivalent at surveyed and marked lacations in mountain areas. A total of abaut ten samples are taken at each lacation. The average of these are reparted as snow depth and water equivalent. These measurements are repeated in the same locatian near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 thraugh June 1 in mast states. There are abaut 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous recard af snaw water and ather parameters at key locatians.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data an reservoir storage, summaries af precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow farecasts, summary of snaw accumulatian to date, and storage in larger reservairs.

Snaw survey and sail maisture data far the period of record are published by the Soil Canservatian Service by states abaut every five years. Data far the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Lone Cone, near Norwood, Colorado, blanketed by its winter mantle of snow.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Canservatian Service publishes reports following the principal snaw survey dates from January 1 thraugh June 1 in cooperatian with state water administrators, agricultural experiment statians and athers. Capies af the reparts far Western United States and all state reparts may be obtained from Soil Conservation Service, West Technical Service Center, Raam 510, 511 N.W. Broadway, Portland, Oregan 97209.

Copies of state and local reparts may alsa be obtained from state offices af the Soil Canservation Service in the fallawing states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizana	Raam 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colarada (N. Mex.)	P. O. Bax 17107, Denver, Colorado 80217
Idaha	Raom 345, 304 N. 8th. St., Baise, Idaha 83702
Mantana	P. O. Bax 98, Bazeman, Mantana 59715
Nevada	P. O. Bax 4850, Reno, Nevada 89505
Oregan	1220 S. W. Third Ave., Portland, Oregan 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washingtan	360 U. S. Caurt Hause, Spokane, Washingtan 99201
Wyaming	P. O. Box 2440, Casper, Wyaming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR APRIL 1, 1982

The April 1 snow surveys show Idaho's snowpack to range from near normal to well above normal throughout the state. The northern portion of the state, from the Clearwater drainage north, is average to slightly above while the southern portion, from the Salmon River drainage south, varies from 119 percent to 150 percent of average for the water year. Exceptions in the southern portion are the Beaver-Camas Creek area east of Dubois and the Weiser River where snowpack is 100 to 108 percent of normal, and the Owyhee River drainage where the snowpack is extremely high at 190 percent of average.

The last half of March was an extremely high snowfall period over most of the state with many higher elevation sites increasing 7 to 15 inches in snow water content or nearly 200 percent of normal for the month. The low elevation snowpack began to melt with mild temperatures the first part of March but recovered to normal or well above normal by the end of the month.

Precipitation has been well above normal in Idaho for the past six months. For March the average across the state was 157 percent of average with a range of 106 percent at Porthill in North Idaho to 263 percent at Ketchum in the Sun Valley area. For the water year the state stands at 149 percent with a peak of 207 percent at Grace in the southeast.

Water supplies are forecast to be good to excellent throughout the state. April through September streamflows are predicted to range from 106 percent

of average on the Priest River in North Idaho to 199 percent on the Owyhee River in Southern Idaho.

Soil moisture conditions in the lower and middle elevation zones are saturated and are wet in the higher elevations.

In general, most reservoir storages are below normal and many reservoirs are being lowered even further to handle the expected high runoff.

A potential for high volume flows does exist on many Idaho streams. April and May weather conditions will dictate how much if any will occur. Continued cold weather over the next several weeks would not allow low elevation snowpacks to dissipate. This could result in high and low elevation snowpacks being melted simultaneously resulting in higher peak flows. Precipitation in the form of rain on the existing snowpack would also increase the potential for high peak flows. Several areas of concern are the Portneuf, Big Wood, Boise, Bruneau and Owyhee Rivers.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

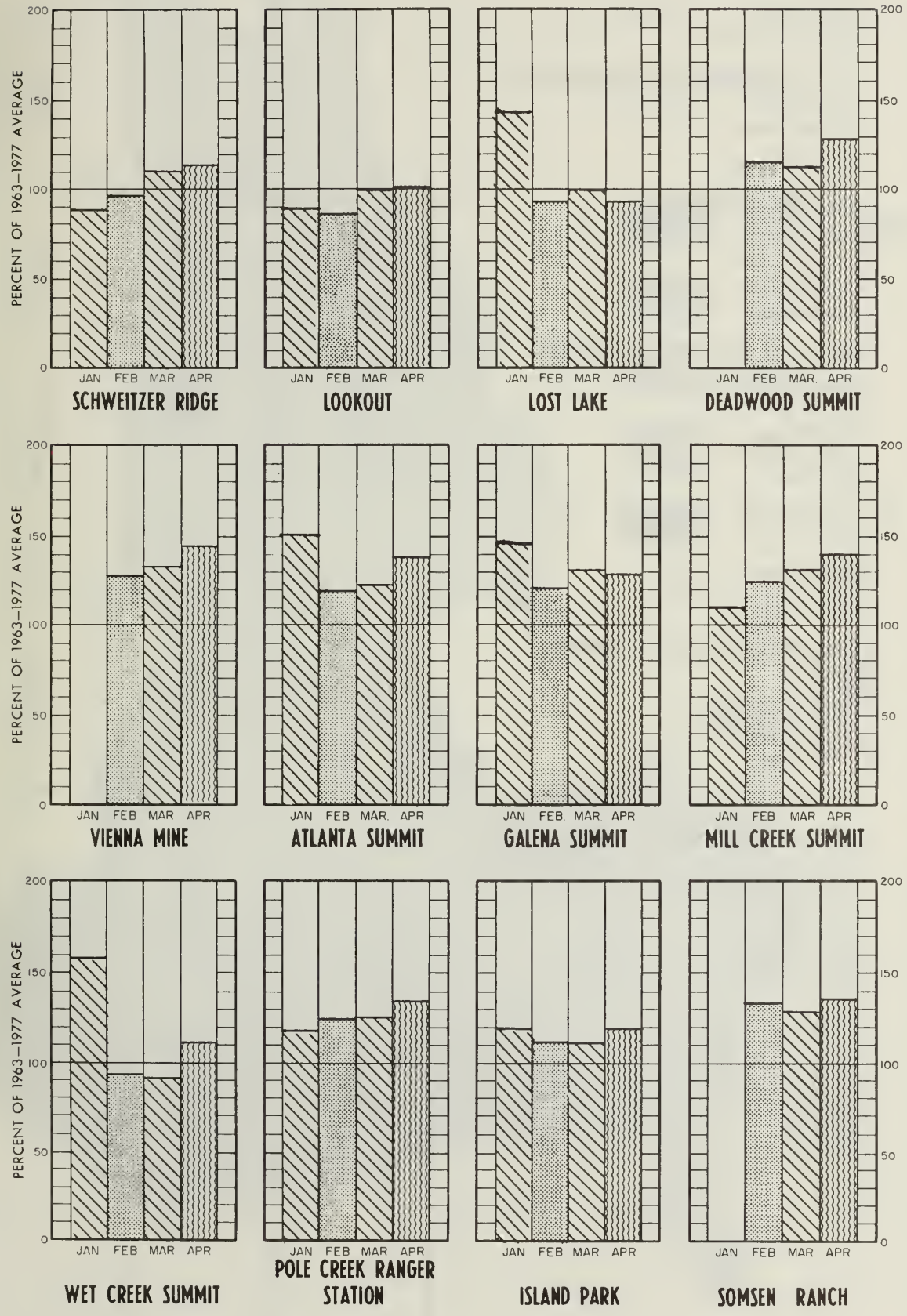
DRAINAGE DIVISIONS	Winter March 1982		Fall - Winter Nov. 81 - March 82	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.99	+ .25	14.44	+ 1.05
Flathead	1.95	+ .42	12.86	+ 2.13
Clark Fork	1.97	+ .75	10.59	+ 2.59
Pend Oreille-Spokane	3.45	+ .92	19.70	+ 2.15
Upper Snake	2.39	+ .87	14.21	+ 4.10
Snake River Plain	1.45	+ .67	7.16	+ 2.08
Salmon-Payette-Boise	1.96	+ .23	16.88	+ 5.09
Clearwater	3.06	+ .10	20.15	+ 2.27
Owyhee-Malheur	1.20	+ .35	9.20	+ 3.53

1/ Preliminary analysis and data by the National Weather Service and Meteorlogical Service of Canada.

2/ Departure from 15-year (1963-1977) drainage division averages.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

APRIL 1, 1982



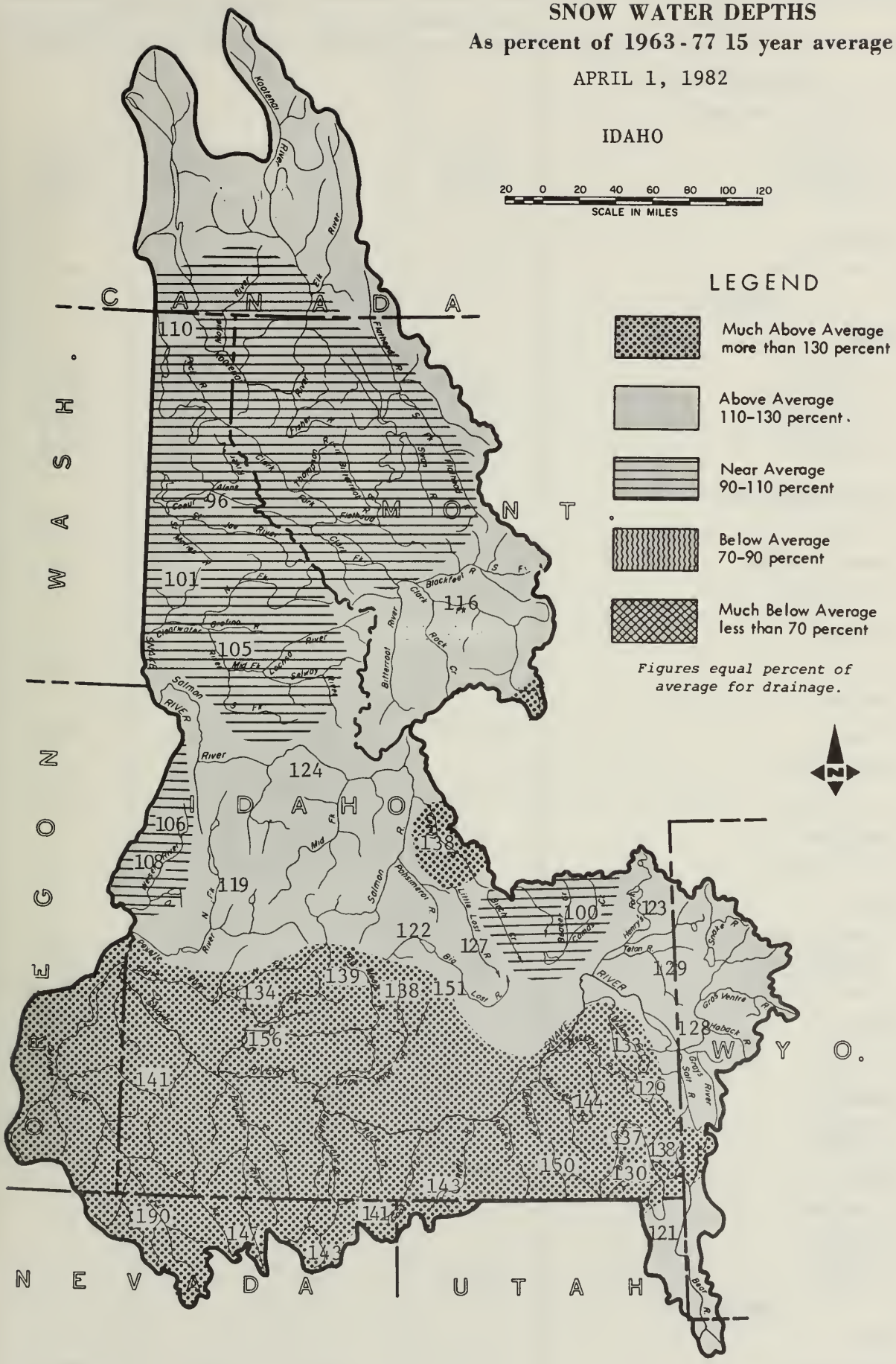
COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN			
Kootenai River	51	165	109
Pend Oreille River	128	173	111
Clark Fork River	86	196	116
Flathead River	42	148	104
Priest River	5 - 6	165	110
Spokane River	14 - 15	244	96
Hayden Creek	4	3640	--
LOWER SNAKE RIVER BASIN			
Palouse River	3	651	101
Clearwater River	19 - 21	219	105
Salmon River	21 - 26	188	124
Lemhi River	6	188	138
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	217	127
Big Lost River	9	146	122
Fish Creek	2	298	151
Little Wood River	4	205	138
Big Wood River	10 - 12	205	139
Boise River	17 - 20	249	134
Canyon Creek	3	427	156
Payette River	14 - 17	191	119
Weiser River	6 - 8	163	106
Mann Creek	4 - 5	155	108
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	5 - 7	213	143
Goose-Trapper Creek	3 - 5	219	141
Salmon Falls Creek	10	254	143
Bruneau River	4	242	147
Owyhee River	6	597	190
Jordan Creek	3	332	141
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	33	238	128
Camas-Beaver Creeks	3	149	100
Henrys Fork River	7	194	123
Teton River	8	231	129
Willow Creek	5 - 9	254	133
Blackfoot River	3 - 6	259	129
Portneuf River	4 - 10	251	144
GREAT BASIN			
Bear River - Upper	6	194	121
Bear River - Lower	25	284	130
Montpelier Creek	6	378	138
Mink Creek	7	264	137
Cub River	3 - 4	245	130
Malad River	4 - 6	316	150

SNOW WATER DEPTHS

As percent of 1963-77 15 year average

APRIL 1, 1982



RESERVOIR STORAGE (1,000 Ac. Ft.)

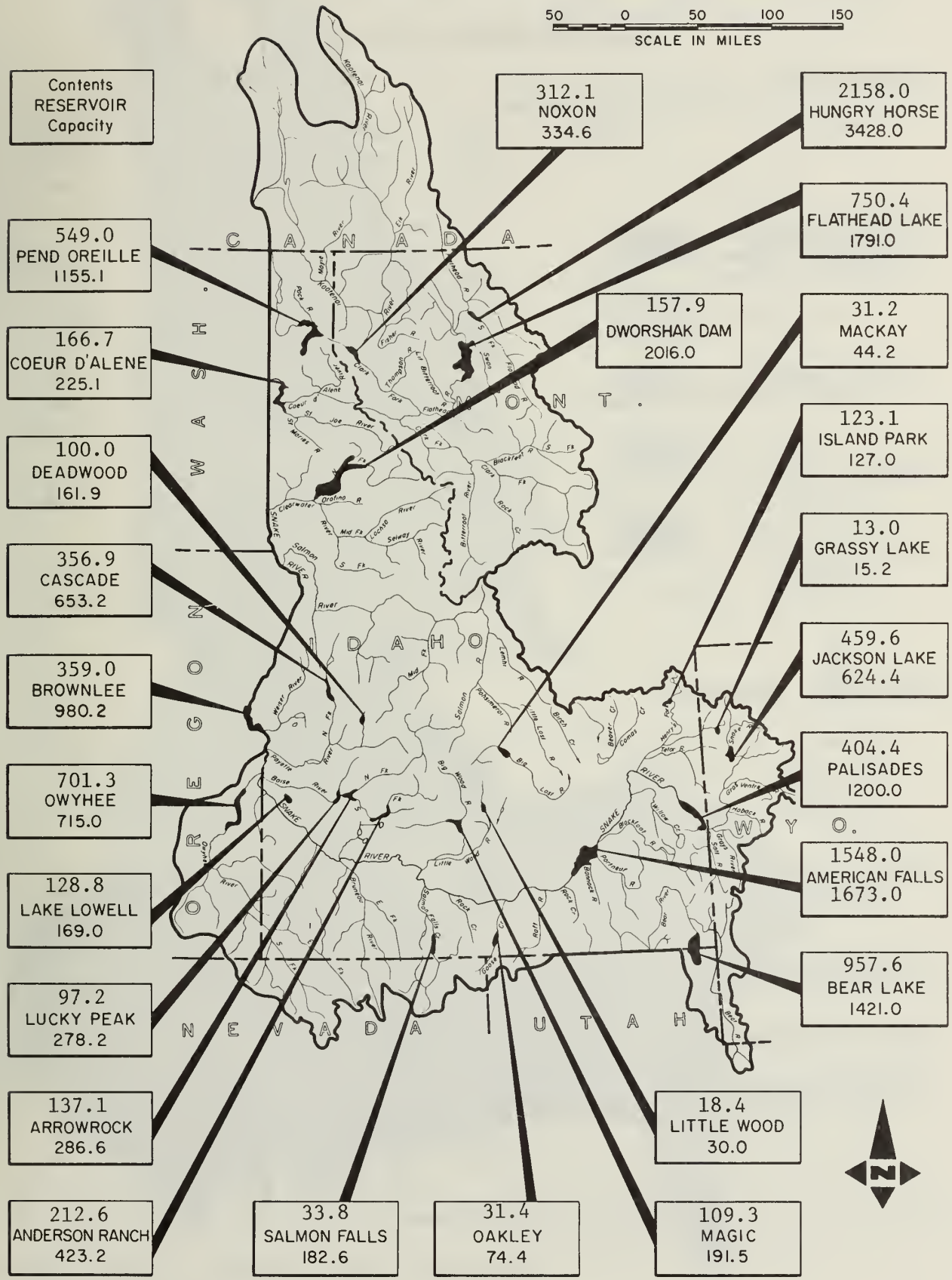
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2158.0	2646.0	2016.0
Flathead	1791.0	750.4	745.6	775.7
Pend Oreille	1155.1	549.0	532.8	432.9
Noxon	334.6	312.1	158.7	191.9
Spokane				
Coeur d'Alene	225.1	166.7	170.4	149.9
SNAKE BASIN				
Snake				
Jackson Lake	624.4	459.6	563.6	612.9
Palisades	1200.0	404.4	1194.1	815.9
American Falls	1673.0	1548.0	1669.1	1390.8
Island Park	127.0	123.1	131.5	122.5
Grassy Lake	15.2	13.0	12.9	10.8
Brownlee	980.2	359.0	660.0	395.5
Goose-Trapper Creeks				
Oakley	74.4	31.4	31.4	33.1
Salmon Falls Creek				
Salmon Falls	182.6	33.8	62.5	63.7
Big Lost				
Mackay	44.2	31.2	44.1	32.9
Big Wood				
Magic	191.5	109.3	145.0	129.9
Little Wood				
Little Wood	30.0	18.4	28.3	18.5
Fish Creek				
Carey Valley	14.4	8.4	9.4	--
Boise				
Anderson Ranch	423.2	212.6	319.6	248.5
Arrowrock	286.6	137.1	286.4	226.6
Lucky Peak	278.2	97.2	242.4	115.5
Lake Lowell (Deer Flat)	169.0	128.8	154.5	139.3
Owyhee				
Owyhee	715.0	701.3	605.6	553.2
Payette				
Cascade	653.2	356.9	557.5	305.4
Deadwood	161.9	100.0	122.2	92.0
Weiser				
Mann Creek	11.1	8.8	11.2	--
Clearwater				
Dworshak	2016.0	157.9	1592.3	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	957.6	1067.4	1039.5

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

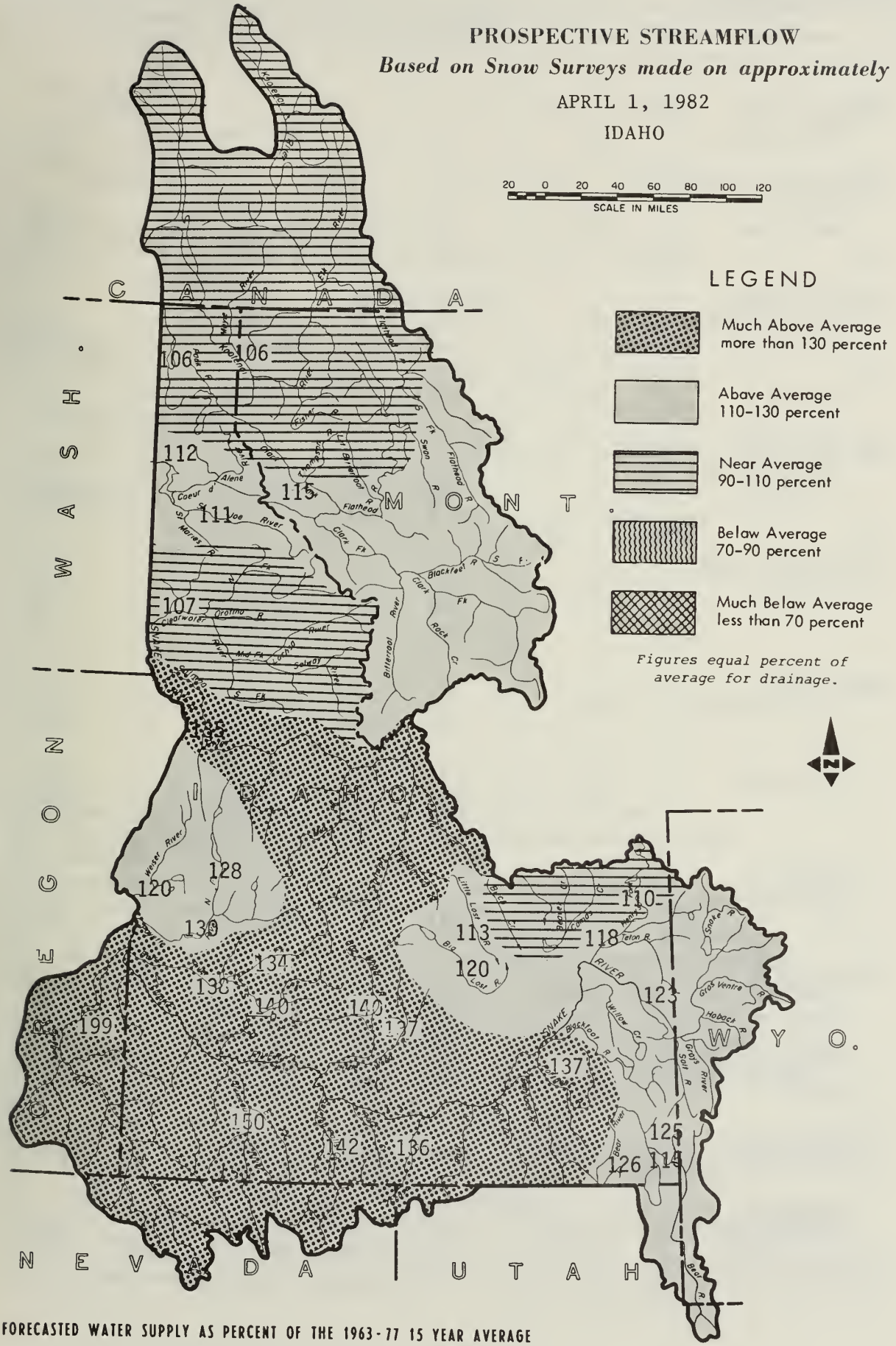
APRIL 1, 1982



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	9380	106	Apr-Sep	--	8858
		8160	106	Apr-Jul	--	7708
		6520	106	Apr-Jun	--	6144
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	15800	115	Apr-Sep	--	13781
		14400	115	Apr-Jul	--	12519
		12200	115	Apr-Jun	--	10633
Priest River						
Priest River 1/	(at)	952	106	Apr-Sep	--	895
		895	106	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	3270	112	Apr-Sep	--	2910
St. Joe River						
Calder	(at)	1450	111	Apr-Sep	--	1309
		1370	111	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1125	125	Apr-Sep	--	903
Palisades Inflow 3/		4840	125	Apr-Sep	--	3863
Heise 4/	(nr)	5230	123	Apr-Sep	--	4247
Blackfoot 5/	(nr)	5600	122	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	810	110	Apr-Sep	--	737
Rexburg 7/	(nr)	1810	118	Apr-Sep	--	1534
Portneuf River						
Topaz	(at)	148	137	Mar-Sep	--	108
Oakley Reservoir Inflow		49	136	Mar-Sep	--	36
Salmon Falls Creek						
San Jacinto	(nr)	135	142	Mar-Sep	--	95
		128	142	Mar-Jul	--	90
		122	144	Mar-Jun	--	85

(c) Assuming normal meteorological conditions.



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Bruneau River						
Hot Springs	(nr)	375	150	Mar-Sep	--	251
Little Lost River						
Howe	(nr)	51	113	Apr-Sep	--	45
Wet Creek	(bl)	46.5	113	Apr-Sep	--	41
		29.5	113	Apr-Jun	--	26
Big Lost River						
Howell Ranch	(at)	270	120	Apr-Sep	--	225
		181	119	Apr-Jun	--	154
Mackay 8/	(nr)	245	120	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		447	140	Apr-Sep	--	319
Inflow 9/		424	140	Apr-Jul	--	303
		468	141	Mar-Jul	--	332
Little Wood River						
Carey	(nr)	148	138	Apr-Sep	--	107
		136	137	Apr-Jul	--	99
		119	137	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	982	134	Apr-Sep	--	733
		904	134	Apr-Jul	--	676
Boise 10/	(nr)	2282	138	Apr-Sep	--	1656
		2120	138	Apr-Jul	--	1536
		1875	138	Apr-Jun	--	1360
South Fork						
Anderson Dam 11/	(at)	871	140	Apr-Sep	--	622
		815	140	Apr-Jul	--	582
Owyhee River						
Gold Cr., Nev. 12/	(nr)	38	180	Apr-Jul	--	23
Owyhee, Nev. 12/	(nr)	118	162	Apr-Jul	--	80
Lake Owyhee		780	199	Apr-Sep	--	392
net inflow 13/		754	207	Apr-Jul	--	431
Rome	(at)	750	208	Apr-Jul	--	361
Payette River						
Horseshoe Bend 14/	(nr)	2418	130	Apr-Sep	--	1860
North Fork						
Cascade 15/	(at)	722	128	Apr-Sep	--	564
Banks 15/	(nr)	929	128	Apr-Sep	--	726

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Weiser River						
Weiser	(nr)	531	120	Apr-Sep	--	442
Salmon River						
Whitebird	(at)	9710	135	Apr-Sep	--	7196
Clearwater River						
Spalding	(at)	9240	107	Apr-Sep	--	8672
GREAT BASIN						
BEAR RIVER						
Harer	(at)	383	115	Apr-Sep	--	332
Montpelier Creek						
Montpelier	(nr)	15.5	125	Apr-Sep	--	12.4
Cub River						
Preston	(nr)	63	126	Apr-Sep	--	50
		59	126	Apr-Jul	--	47

1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake.
3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades.
5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
8/ Observed flow corrected for storage in Mackay Reservoir.
9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
10/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
11/ Corrected for storage in Anderson Ranch Reservoir.
12/ Corrected for storage in Wildhorse Reservoir.
13/ From Bureau of Reclamation records of inflow.
14/ Corrected for storage in Cascade and Deadwood Reservoirs.
15/ Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Above Burke	Coeur d'Alene	4100	3/30	53	21.4	8.4	24.7*
Above Gilmore	Lemhi	8320	4/2	56	14.2	8.9	10.6
Above Roland	St. Joe	4350	4/1	83	35.8	13.6	35.2*
Allen Ranch	Blackfoot	6470	3/30	40	13.3	--	--
Antelope Ridge	Owyhee	6180	3/30	23	10.4	0.0	6.2
Aspen Grove	Willow	6500	3/30	57	17.4	9.1	12.1*
Aspen Hall Pass (A)	Lemhi	8200	4/2	58	13.8	8.0	10.6*
Atlanta Summit	Boise	7600	4/5	146	50.1	22.0	36.2
Atlanta Townsite	Boise	5280	4/2	41	14.2	2.7	--
Austin Brothers Ranch	Blackfoot	6400	3/30	35	11.2	0.0	8.9
Bad Bear	Boise	4940	3/31	48	15.9	4.0	13.9
Badger Gulch	Trapper	6660	5/4	50	18.2	7.2	13.1
Banner Summit	Payette	7040	4/2	113	38.7	22.2	--
Battle Creek (A)	Owyhee	5710				0.0	1.7
Beagle Springs (Mt)	Beaverhead	8850	3/27	46	12.5	9.8	--
Bear Basin	Little Salmon	5350	3/29	59	20.1	11.8	--
Bear Canyon	Big Lost	7900	4/5	99	26.7	16.8	19.9
Bear Creek (Nv)	Jarbidge	8040	4/5	85	31.5	13.9	21.3
Bear Mountain	Clark Fork	5400	3/25	168	75.1	41.9	64.2*
Bear Saddle	Mann Creek	6180	3/27	73	28.8	18.5	--
Beaverdam Creek	Portneuf	6120	3/29	36	12.6	4.3	--
Below Roland	St. Joe	3920	4/1	34	14.1	0.0	--
Bennett Mountain	Canyon Creek	6560	3/27	59	21.1	11.1	17.5
Benton Meadow	Priest	2370	3/29	0	0.0	0.0	5.0
Benton Spring	Priest	4920	3/29	52	18.9	9.5	20.2
Big Creek Summit	Salmon	6580	3/27	123	51.5	23.8	37.5
Big Springs	Henrys Fork	6400	3/28	67	24.0	12.9	22.0
Birch Creek	Willow	6800	3/30	44	15.9	6.9	11.4*
Black Bear (Mt)	Madison	7950	3/30	147	57.4	27.2	44.1
Black Canyon	Henrys Fork	7960				24.4	35.4*
Black Moose	Henrys Fork	8160				25.2	40.3*
Blue Ledge Mine	W. Camas	6900	3/29	55	16.7	11.0	17.8
Blue Ridge	Blackfoot	6780	3/30	71	28.0	12.6	--
Bogus Basin	Payette	6340	3/31	84	29.8	14.3	24.5
Bogus Basin Road	Boise	5540	3/31	18	4.9	0.7	2.2
Bone	Willow	6200	3/29	22	7.0	0.0	7.2*
Borah (A)	Pahsimeroi	8250	4/2	37	9.8	4.7	--
Bostetter Ranger Sta.	Trapper	7500	4/3	74	28.1	12.5	20.2
Boulder Creek	Weiser	5440	3/31	75	25.4	11.6	25.1
Boy Scout Camp	Raft	7740	4/3	63	20.7	13.4	15.8
Breezy Saddle	Clearwater	5010	4/2	86	30.4	15.4	--
Brockman Station	Willow	6430	3/29	35	8.3	0.0	--
Brundage Mountain	Little Salmon	7560	3/29	136	57.8	34.0	48.6*
Buck Meadows	Selway	5650	4/1	97	39.5	14.5	31.2*
Bull Basin (A)	Owyhee	5480				0.0	0.4
Camas Creek Divide	Big Wood	5710	3/27	41	17.5	0.0	8.8*
Camp Creek	Beaver	5780	3/29	51	11.5	9.6	12.0
Cayuse Airstrip	Clearwater	3500	4/2	27	8.8	0.0	9.8
Cedar Creek	Cedar	6820	4/5	39	12.6	4.0	10.0
Chilco Ridge	Hayden	3650	3/29	0	0.0	0.0	--
Chimney Creek	Big Wood	6400	3/27	49	18.8	6.8	--
Christensen Ranch	Mink	5560	3/25	26	10.9	4.1	7.6
Clear Creek Meadows	Raft	9420	4/3	112	36.0	18.1	23.6
Cliff Canyon	Malad	7200	3/25	43	14.6	4.3	--
Cold Springs	Portneuf	7000	4/4	82	29.0	--	--
Conie Ridge	Hayden	3900	3/29	6	2.0	0.0	--
Coolwater Mountain	Lochsa	6040	4/2	136	44.2	18.9	33.0
Copes Camp	Lemhi	7520	4/2	48	12.6	5.8	8.8
Copper Basin	Big Lost	7640	4/5	51	12.6	8.9	10.9
Copper Ridge	Coeur d'Alene	4820	3/30	62	26.6	3.6	29.7
Corner Creek	Hayden	3150	3/29	0	0.0	0.0	--
Couch Summit	Boise	6840	3/27	61	20.5	13.0	18.7
Cozy Cove	Deadwood	5380	4/2	58	17.5	8.3	16.6
Crab Creek	Camas-Beaver	6860	3/29	52	15.2	--	--
Crater Meadows	Clearwater	5960	4/2	127	45.0	21.9	46.3
Crawford Ranger Sta.	Payette	4860	3/27	14	6.5	0.0	6.1
Crooked Fork	Lochsa	3610	3/30	35	13.4	0.0	14.1*
Cub River Ranger Sta.	Cub	5450	3/25	24	10.2	3.2	6.9
Daniels Creek	Malad	6270	3/25	27	9.8	2.0	--
Darby Canyon (Wy)	Teton	8250	3/31	88	32.1	14.9	24.0*
Deadline	Salmon Falls	7400	4/5	69	28.7	12.3	22.3
Deadline South	Salmon Falls	7450	4/5	77	29.5	--	--
Deadman Gulch	Boise	5600	3/28	54	20.2	8.2	16.8*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
Name & Drainage			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
						Last Year	Average
Deadwood Airstrip	Deadwood	5360	4/2	58	18.4	10.6	15.6
Deadwood Summit	Deadwood	6860	4/2	165	61.5	35.3	47.5
Dempsey Creek	Portneuf	6100	3/29	52	18.0	9.2	13.0
Dollarhide Summit	Big Wood	8420	4/5	121	38.9	18.5	25.1
Double Springs Pass (A)	Pahsimeroi	8380	4/2	48	13.2	7.9	11.1*
Dry Basin	Mink	7820	3/25	104	38.5	17.0	30.2
Dry Creek Flat	Malad	6360	3/25	22	9.3	0.9	5.3
Dry Fork	Big Lost	7220	3/29	65	19.7	12.4	16.9*
East Creek	Portneuf	7000	3/29	56	19.0	6.7	--
East Twin	Palouse	4130	3/29	27	11.4	0.6	9.8
Elk Butte	Clearwater	5550	4/2	102	35.4	16.1	38.8
Emigrant Summit	Bear	7390	3/31	103	36.7	12.6	26.0
Emigration Canyon	Bear	6500	3/31	48	16.4	5.4	11.1
Fairview Guard Sta.	Little Lost	6750	3/30	22	6.6	0.0	3.2
Fish Lake Airstrip	Lochsa	5650	4/2	120	40.8	19.4	41.2
Fishpole Lake	Big Lost	9300	4/5	115	32.1	22.7	21.1*
Forty-nine Meadows	Clearwater	4830	4/2	79	28.6	16.2	32.5
Fourth of July Summit	Coeur d'Alene	3200	3/31	11	3.2	0.0	8.8
Fox Creek (Nv)	Jarbidge	6750	4/5	42	14.7	3.9	9.9*
Franklin Basin	Cub	8040	3/25	94	35.3	14.4	28.2
Freds Mountain (Wy)	Teton	8150	3/29	91	32.3	15.3	20.7*
Galena	Big Wood	7440	3/29	75	23.3	15.0	19.5
Galena Snotel	Big Wood	7470	3/29	78	25.6	--	--
Galena Summit	Big Wood	8780	3/29	94	32.3	19.0	25.2
Garfield Ranger Sta.	Little Wood	6560	4/5	54	14.5	6.4	10.2
George Creek (Ut)	Raft	8840	4/3	106	34.5	15.5	--
George's Peak (Ut)	Raft	9000	4/3	116	44.0	--	--
Gibbons Pass (Mt)	Bitterroot	7100	3/25	84	30.9	17.8	24.8
Giveout	Montpelier	6860	3/29	56	19.0	4.8	13.0
Goat Creek (Nv)	Salmon Falls	8880	4/5	83	29.0	11.4	18.6
Goat Lake	Clearwater	6500	4/2	139	47.8	25.8	49.3
Graham Guard Sta.	Boise	5690	4/2	57	19.8	7.1	--
Graham Ranch	Big Wood	6270	3/29	54	16.6	12.2	14.4
Granite Peak	St. Joe	6000	4/2	140	44.2	22.1	46.8
Grassy Lake (Wy)	Henrys Fork	7265	3/29	122	48.3	22.7	36.6
Halverson Creek	Kootenai	4850	3/25	139	60.8	36.4	44.2*
Hall Creek	Lemhi	7560	4/2	36	8.4	4.8	5.9*
Hemlock Butte	Clearwater	5810	4/2	153	52.2	23.8	51.3
Hilts Creek	Little Lost	8000		Unavailable		11.0	--
Hoodoo Basin (Mt)	Clark Fork	6000	3/29	148	65.0	34.4	53.6*
Hoodoo Creek (Mt)	Clark Fork	5900	3/29	139	58.5	28.5	49.9
Horseshoe Basin	Bear	8000	3/25	94	35.7	17.3	25.6
Howell Canyon	Marsh Creek	7980	4/3	96	38.2	12.7	26.1
Humboldt Gulch	Coeur d'Alene	4250	3/30	42	15.0	--	--
Hummingbird Spgs. (Nv)	Jarbidge	8870	4/5	106	37.1	14.3	23.7
Hyde Pasture (A)	Jordan-Owyhee	5760				0.0	3.2
Hyndman Creek	Big Wood	7440	4/5	82	22.1	12.8	--
Idaho City	Boise	4000	3/31	13	3.1	--	--
Indian Grove	Raft	7560	4/3	48	15.7	7.4	--
Indian Meadows	Teton	8240		Unavailable		--	37.4*
Iron Bog	Big Lost	7650	3/29	50	13.2	11.0	14.1
Iron Mine Creek	Fish Creek	6300	4/5	60	15.9	8.8	10.5
Irving Creek	Medicine Lodge	7035	4/2	49	9.5	5.7	5.7*
Island Park	Henrys Fork	6290	3/28	56	20.4	10.7	17.2
Jackpine Creek (Wy)	Teton	7350	3/31	80	29.6	11.9	23.0*
Jackson Peak	Boise	7070	4/2	112	38.8	21.7	33.1
Johnson Creek	Blackfoot	6730	3/31	52	16.8	8.4	--
Johnson Pond	Owyhee	6700				--	--
Kellogg Peak	Coeur d'Alene	5560	4/1	92	36.2	13.6	35.4
Kilgore	Camas Creek	6320	3/29	40	13.2	7.1	11.5
Kit Carson Pasture	Selway	4950	3/27	31	13.1	2.4	9.1
Kruze Meadow	Clearwater	4780	4/1	41	14.6	0.0	--
Lake Fork	Payette	5290	3/27	46	16.6	8.8	16.9
Langford Flat Creek	Salmon Falls	5980	4/5	16	6.2	--	--
Latham Springs	Henrys Fork	7630				23.8	34.8
Lava Creek	Willow	7350	3/29	66	23.8	8.8	--
Leadbelt	Big Lost	6700	3/29	26	9.2	8.6	9.4
Leatherman Pass (A)	Pahsimeroi	9860	4/2	85	27.4	19.9	26.1*
Lemhi Pass (Mt)	Beaverhead	7480	3/28	33	10.4	7.0	9.9
Lemhi Ridge (Mt)	Beaverhead	8100	3/28	42	12.8	8.9	10.9*
Liberty Spring	Mink	8600	3/25	146	57.6	17.8	39.8
Little Beaver	Montpelier	6970	3/29	62	22.3	6.6	16.3

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

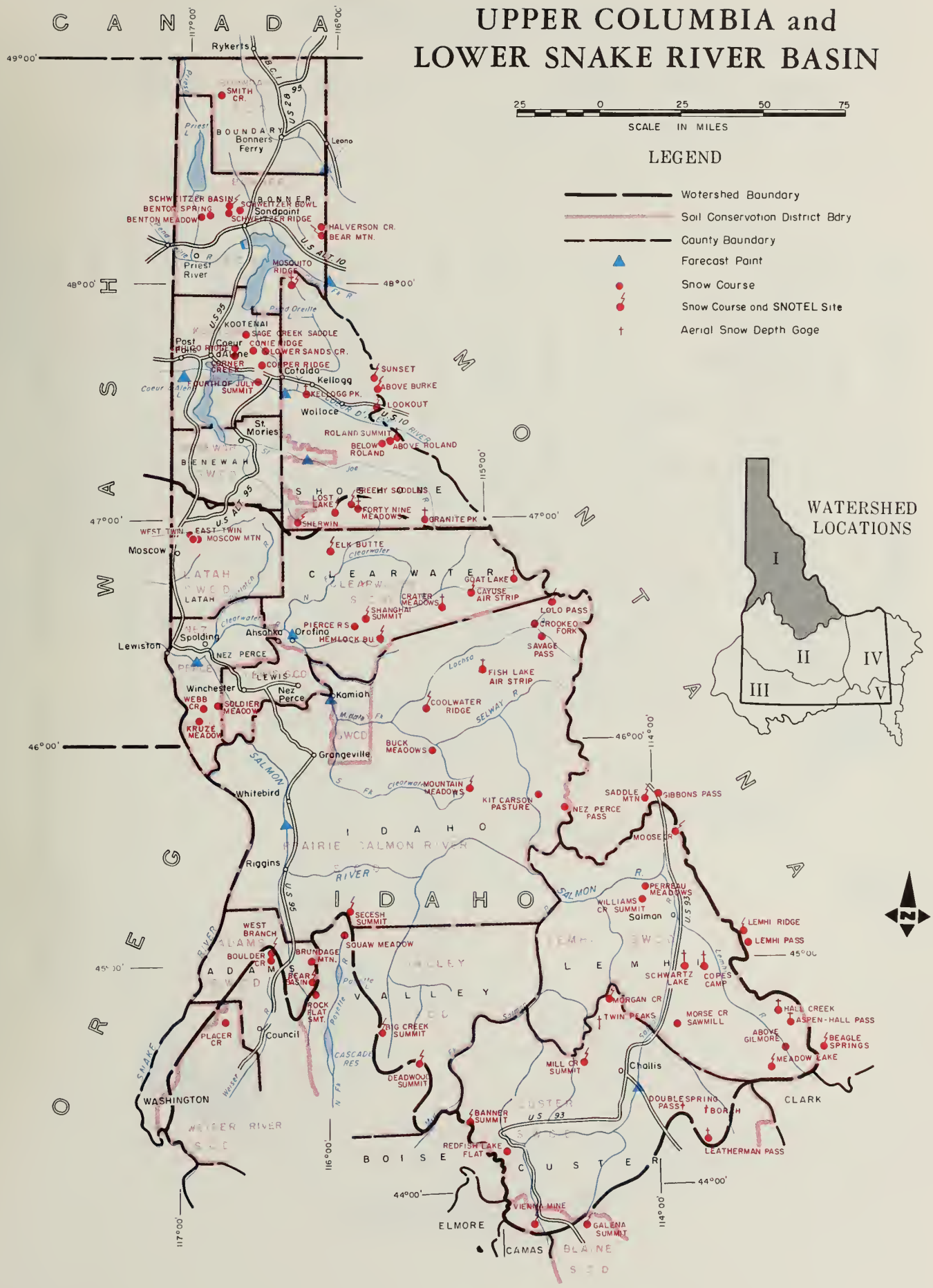
DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Little Camas Flat	Boise	4940	3/27	19	8.8	0.0	4.0
Logger Springs	Raft	8120	4/3	74	24.2	12.9	--
Lolo Pass	Lochsa	5240	3/30	84	34.3	14.1	32.6
Lookout	Coeur d'Alene	5140	3/30	97	37.6	17.4	37.1
Lost Garfield	Little Lost	6600	3/30	19	6.7	0.0	3.0
Lost Lake	Clearwater	6110	4/2	167	57.5	34.3	61.8*
Lost-Wood Divide	Big Lost	7900	4/5	104	33.8	18.3	24.8
Lower Elkhorn	Portneuf	6960	3/25	56	21.8	6.9	14.0*
Lower Home Canyon	Montpelier	7640	3/31	58	19.0	6.5	14.9*
Lower Pebble	Portneuf	5780	3/29	53	20.4	5.4	13.3*
Lower Sands Creek	Coeur d'Alene	3120	3/30	43	16.4	4.2	21.9
Lucky Dog	Henrys Fork	6860				17.6	26.0
Magic Mountain	Rock Creek	6880	4/5	69	25.9	11.9	19.2
Mann Creek	Weiser	6080	3/27	76	29.6	18.8	27.7*
Mascot Mine	Big Wood	7780	4/5	87	24.1	13.2	15.5
McRenolds Reservoir	Teton	6720	3/31	66	22.8	11.3	20.7*
Meadow Lake	Lemhi	9150	4/2	90	28.0	15.3	20.8
Mill Creek Summit	Salmon	8800	4/4	105	33.8	14.3	24.1
Mink Creek	Portneuf	6410	3/31	76	29.1	12.4	18.3
Montpelier Creek	Monteplier	6540	3/29	33	9.3	0.0	8.4
Moonshine	Little Lost	7440	3/30	44	12.2	6.8	11.2
Moores Creek Summit	Boise	6100	3/31	108	40.8	17.6	33.6
Moose Creek	N. F. Salmon	6200	4/1	63	22.0	10.8	17.1
Morgan Creek	Salmon	7600	4/1	63	18.9	9.0	14.9
Morse Creek Sawmill	Salmon	7120	4/2	42	11.0	8.1	9.5
Moscow Mountain	Palouse	4410	3/29	50	19.6	4.3	18.0
Mosquito Ridge	Coeur d'Alene	5200	4/1	109	41.8	25.6	40.2
Mountain Meadows	Selway	6360	4/2	83	25.1	11.2	26.1*
Mount Baldy	Big Wood	8920	3/31	101	31.6	16.9	21.4
Mud Creek	Willow	7100	3/30	81	28.5	12.1	--
Mud Flat	Owyhee	5730	3/30	19	8.4	0.0	4.9
Muldoon	Little Wood	6320	4/5	35	9.3	1.1	7.1
Nez Perce Pass (Mt)	Bitterroot	6570	3/27	62	24.1	8.8	--
North Putnam	Ross Fork	7240	4/5	102	41.0	--	--
One Mile Summit	Raft	7330	4/3	33	9.2	5.3	7.6
Oxford Mountain	Malad	6800	3/25	41	14.1	5.1	9.5
Oxford Spring	Malad	6740	3/25	45	16.9	--	--
Packsaddle Spring	Teton	8200		Unavailable		16.8	--
Pebble Creek	Portneuf	6400	3/29	54	20.5	6.9	16.7
Perreau Meadows	Salmon	8500	3/31	62	21.7	11.2	--
Phillips Bench (Wy)	Teton	8200	3/29	110	40.8	15.6	30.6*
Pierce Ranger Sta.	Clearwater	3080	4/1	30	11.5	0.0	10.6
Pine Creek Pass	Teton	6810	3/29	66	23.2	8.7	18.3
Placer Creek	Weiser	5860	3/28	64	18.8	12.2	18.8
Pole Creek Ranger Sta.	Jarbidge	8360	4/5	86	30.6	14.9	22.5
Prairie	Boise	4800	3/28	10	4.6	0.0	3.4
Putnam	Portneuf	7220	4/4	77	29.2	--	--
Rammel Ridge	Teton	8240	3/31	132	51.7	22.3	--
Red Canyon	Owyhee	6520				0.1	5.0
Redfish Lake Flat	Salmon	6560	3/30	46	15.6	7.2	10.9*
Road Creek	Boise	5380	4/2	41	13.0	2.4	9.2*
Robinson Creek Ridge	Weiser	6220	3/27	44	19.0	15.8	21.3*
Rock Flat Summit	Payette	5310	3/29	54	18.4	10.8	19.6
Roland Summit	St. Joe	5120	4/1	106	46.4	13.0	40.1*
Sage Creek Saddle	Hayden	4080	3/29	43	16.2	0.5	--
Savage Pass	Lochsa	6170	3/30	92	34.3	17.6	28.6
Sawmill Canyon	Little Lost	7000	3/30	37	8.8	6.8	8.1
Sawtell Mountain	Henrys Fork	8720	3/29	160	48.8	26.0	35.1*
Schwartz Lake	Lemhi	8540	4/2	68	20.3	9.0	13.8
Schweitzer Basin	Pend Oreille	6090	4/1	150	61.0	--	--
Schweitzer Bowl	Pend Oreille	4800	4/1	96	38.6	--	30.9*
Schweitzer Ridge	Pend Oreille	6200	4/1	134	54.5	38.1	47.8*
Secesh Summit	Payette	6520	3/26	112	46.8	22.4	37.2*
Sedgwick Peak	Portneuf	7850	3/29	76	26.3	11.1	--
Seventy Six Creek	Jarbidge-Bruneau	7100		Unavailable		6.8	11.4
Shanghai Summit	Clearwater	4570	4/2	79	27.2	5.8	27.2
Sheep Mountain	Willow	6570	3/29	52	18.3	6.2	13.9*
Sherwin	St. Maries	3200	3/25	37	15.1	0.4	13.8
Shoshone Basin	Salmon Falls	5810	4/5	14	5.0	1.5	5.1*
Silver City	Jordan-Owyhee	6400	3/31	55	19.8	6.0	15.4
Skitwish Ridge	Coeur d'Alene	5110	3/30	74	33.9	--	--
Slug Creek Divide	Blackfoot	7230	3/29	64	22.3	9.0	18.0

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
Name & Drainage		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average
Smith Creek	Kootenai	4800	3/31	127	52.8	34.2	48.8
Soldier Ranger Sta.	Big Wood	5740	3/27	35	11.9	0.0	10.3
Somsen Ranch	Willow Creek	6840	3/30	60	20.6	9.0	15.1
South Mountain	Jordan-Owyhee	6500	3/31	52	19.0	8.2	13.0
Squaw Flat	Weiser	6240	3/27	72	26.8	15.6	--
Squaw Meadow	Payette	5900	3/26	106	45.3	22.2	37.4
State Line	Teton	6660	3/29	50	17.4	7.7	15.3
Stickney Mill	Big Lost	7430	4/5	54	13.7	10.1	10.6
Strawberry Creek	Mink	5820	3/31	36	12.7	4.9	10.2
Strawberry Mink Divide	Mink	6720	3/25	73	28.8	10.0	21.9
Sturgill Ridge	Weiser	6680	3/27	89	34.4	21.4	32.6*
Sublett	Raft	5950	4/3	45	16.3	5.6	11.1
Succor Creek	Jordan-Owyhee	6100				5.1	5.0
Sulphur Peak	Blackfoot	7070	3/31	58	19.9	8.6	--
Sunset	Coeur d'Alene	5540	4/1	100	37.0	17.0	36.2
Swede Peak	Little Wood	7640	4/5	95	26.0	13.0	18.1
Targhee Pass	Henrys Fork	6980	3/29	67	16.8	9.0	17.1*
Telfer Ranch	Fish Creek	5840	4/5	32	10.3	0.0	6.8
Teton Pass W.S. (Wy)	Teton	7740	3/30	93	34.7	15.6	27.7*
Tex Creek	Willow	6650	3/29	44	13.6	7.6	9.7*
Thorson Cabin	Weiser	5320	3/27	53	21.0	11.4	14.3*
Toponce	Portneuf	6160	4/4	60	24.2	--	--
Trinity Mountain	Boise	7770	4/5	160	60.8	26.5	43.2
Tripod Summit	Payette	5260	3/28	56	20.9	10.1	19.7
Twin Peaks (A)	Salmon	9190	4/4	109	35.1	14.6	28.0
Upper Elkhorn	Portneuf	7140	3/25	78	27.1	11.4	19.5*
Upper Home Canyon	Montpelier	8560	3/31	95	35.2	12.1	25.1*
Valley View	Henrys Fork	6680	3/29	71	19.8	9.9	18.4
Vaught Ranch (A)	Owyhee	5830				0.0	1.7*
Vienna Mine	Salmon	8960	4/5	153	55.6	26.8	38.7*
Vi Pont	Goose	7670	4/3	61	22.0	9.5	15.1*
War Eagle	Jordan-Owyhee	7280				--	25.1*
Webb Creek	Clearwater	4720	4/1	40	14.4	0.0	--
Webber Creek	Medicine Lodge	6700	4/2	49	9.8	5.4	--
West Branch	Weiser	5560	3/31	87	29.8	17.5	--
West Twin	Palouse	4220	3/29	16	6.1	0.8	9.1
Wet Creek Summit	Little Lost	7680	3/31	58	15.3	9.3	13.6
Whiskey Flat	Montpelier	6960	3/29	45	15.3	1.8	9.4
White Elephant	Henrys Fork	7710	3/29	113	34.4	18.5	25.6*
Wildhorse Divide	Portneuf	6490	3/31	67	25.8	--	--
Williams Creek Summit	Salmon	7990	3/31	54	16.7	8.0	13.5
Willow Flat	Cub	6070	3/25	46	19.3	6.6	14.8
Wilson Creek (Nv)	Salmon Falls	7500	4/5	55	19.7	4.2	11.9
Wood Canyon Divide	Blackfoot	7450	3/31	71	24.8	9.7	--
Worm Creek	Cub	6620	3/25	59	23.0	11.6	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.



USDA SCS-PORTLAND, OR 1981 M7-OL-22023-1

INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		KOOTENAI RIVER				
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800
		PEND OREILLE-PRIEST RIVER				
16A8S	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4920
16A10S	I	Schweitzer Basin	18	58N	2W	6090
16A6	I	Schweitzer Bowl	20	58N	2W	4800
16A5	I	Schweitzer Ridge	19	58N	2W	6200
		HAYDEN CREEK				
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4080
		SPOKANE RIVER				
15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	35	47N	6E	3920
16B2	I	Copper Ridge	6	50N	1W	4820
16B3	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	4	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2S	I	Lookout	4	47N	6E	5140
16B1	I	Lower Sands Creek	32	51N	1W	3120
16A4AS	I	Mosquito Ridge	5	54N	2E	5200
15B5A	I	Roland Summit	26	47N	6E	5120
16C1S	I	Sherwin	28	42N	1E	3200
15B9AS	I	Sunset	33	49N	5E	5540

LOWER SNAKE BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		PALOUSE RIVER				
16C3	I	East Twin	13	40N	5W	4130
16C2	I	Moscow Mountain	18	40N	4W	4410
16C4	I	West Twin	14	40N	5W	4220
		CLEARWATER RIVER				
15B20SR	I	Breezy Saddle	1	43N	4E	5010
15D5	I	Buck Meadows	27	31N	8E	5650
15C3S	I	Cayuse Airstrip	4	38N	11E	3500
15C7S	I	Coolwater Mountain	31	33N	8E	6040
15C9A	I	Crater Meadows	11	37N	9E	5960
14C11	I	Crooked Fork	27	37N	14E	3610
16C15	I	Elk Butte	6	40N	3E	5550
15C2A	I	Fish Lake Airstrip	34	35N	11E	5650
15B3A	I	Forty-nine Meadows	6	43N	5E	4830
14C9A	I	Goat Lake	4	38N	13E	6500
16C6SR	I	Hemlock Butte	7	36N	7E	5810
15C10S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	15E	4950
16C17	I	Kruze Meadows	11	32N	4W	4780
14C5S	I	Lolo Pass	16	38N	15E	5240
15B14S	I	Lost Lake	9	43N	4E	6110
15D6S	I	Mountain Meadows	9	27N	10E	6360
14D1	M	Nez Perce Pass	25	1S	24W	6570
15C5	I	Pierce Ranger Station	2	36N	5E	3080
14C4	I	Savage Pass	18	36N	15E	6170
15C4S	I	Shanghai Summit	7	37N	6E	4600
16C18	I	Soldier Meadows	33	33N	3W	4650
16C19	I	Webb Creek	36	33N	3½W	4720
		SALMON RIVER				
13E19	I	Above Gilmore	13	13N	26E	8240
13E21A	I	Aspen-Hall Pass	6	16N	28E	8200
16E11S	I	Bear Basin	30	19N	3E	5350
15E2S	I	Big Creek Summit	24	15N	5E	6580
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17	I	Copes Camp	36	18N	22E	7520
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9860
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23S	M	Lemhi Ridge	4	10S	15W	8100
13E18S	I	Meadow Lake	26	13N	26E	9150
14E1S	I	Mill Creek Summit	8	13N	17E	8800
13D16S	I	Moose Creek	14	27N	21E	6200
14E4S	I	Morgan Creek	31	18N	19E	7600
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14D5	I	Perreau Meadows	23	21N	20E	8500
14E7	I	Redfish Lake Flat	35	10N	13E	6560
13E16	I	Schwartz Lake	34	18N	22E	8540
14E3A	I	Twin Peaks	28	15N	17E	9190
14F4S	I	Vienna Mine	1	5N	13E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7990

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

MIDDLE SNAKE RIVER BASIN NORTHSIDE

USDA-SCS-PORTLAND, OR 1981 M7-OL-22023-2

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		LITTLE LOST RIVER				
13E5	I	Fairview Guard Station	27	12N	26E	6750
13E10S	I	Hilts Creek	15	8N	25E	8000
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6S	I	Moonshine	31	13N	26E	7440
13E4	I	Sawmill Canyon	17	12N	26E	7000
13E7	I	Wet Creek Summit	15	8N	25E	7680
		BIG LOST RIVER				
13F3S	I	Bear Canyon	22	5N	21E	7900
13F2	I	Copper Basin	26	6N	21E	7640
13F20	I	Dry Fork	23	3N	23E	7220
13F8	I	Fishpole Lake	28	4N	22E	9300
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6700
14F3S	I	Lost Wood Divide	25	6N	18E	7900
14F2S	I	Stickney Mill	9	6N	19E	7430
		BIG WOOD RIVER				
15F9	I	Camas Creeks Divide	11	2S	9E	5710
15F15	I	Chimney Creek	9	1N	12E	6400
14F8S	I	Dollarhide Summit	9	3N	15E	8420
14F1	I	Galena	4	6N	15E	7440
14F6S	I	Galena Snotel	4	6N	15E	7470
14F12S	I	Galena Summit	7	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6270
14F16S	I	Hyndman Creek	2	4N	19E	7440
14F7	I	Mascot Mine	8	4N	20E	7780
14F9	I	Mount Baldy	23	4N	17E	8920
14F11	I	Soldier Ranger Station	29	2N	14E	5740
		LITTLE WOOD RIVER				
13F4S	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	26	3N	21E	6320
13F9RS	I	Swede Peak	4	3N	21E	7640
		FISH CREEK				
13F10	I	Iron Mine Creek	33	3N	23E	6300
13F6	I	Telfer Ranch	7	2N	23E	5840
		BOISE RIVER				
15F4S	I	Atlanta Summit	23	5N	10E	7580
15F2	I	Bad Bear	35	7N	6E	4940
16F4	I	Bogus Basin Road	32	5N	3E	5540

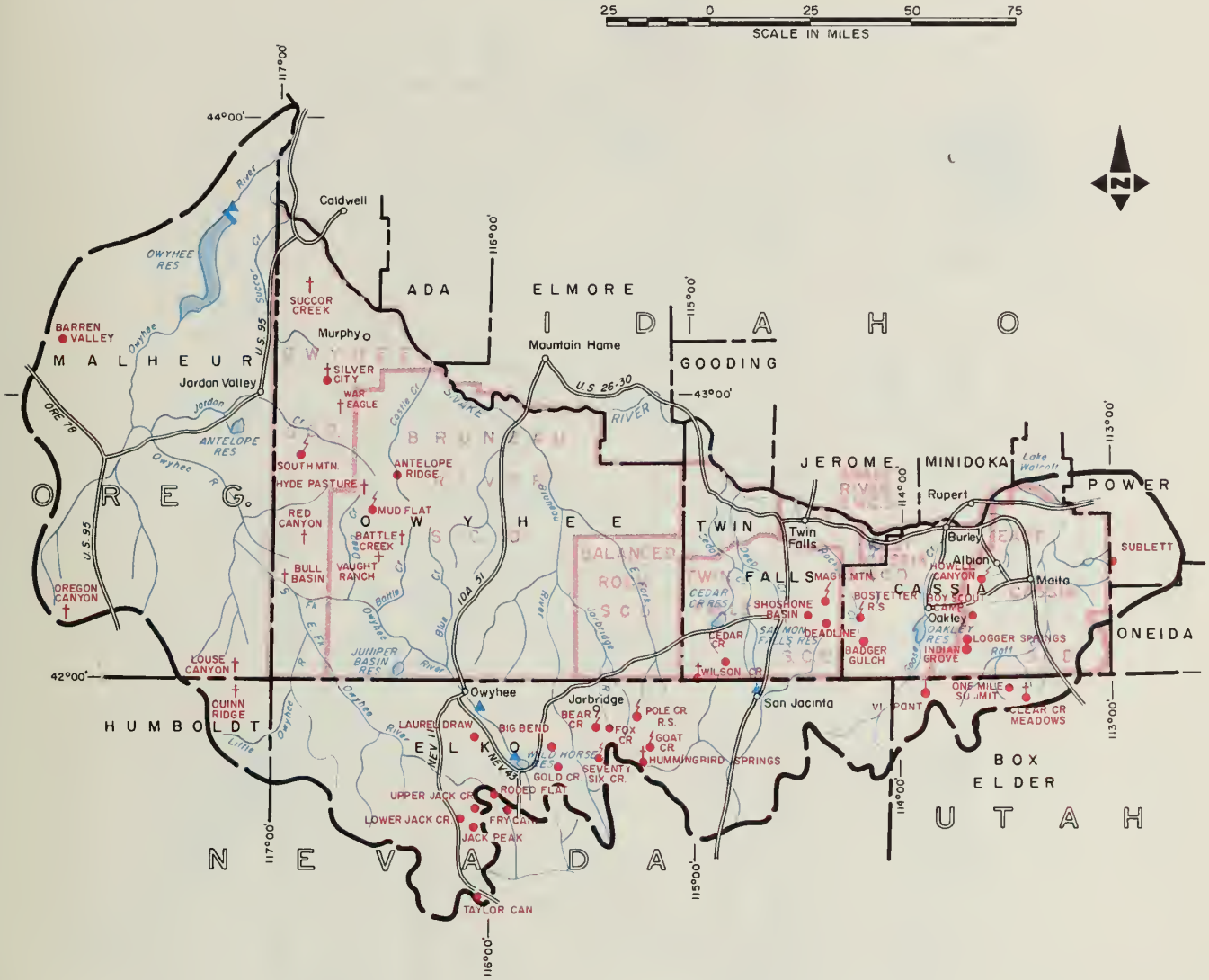
No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		BOISE RIVER (cont.)				
14F10	I	Couch Summit	9	2N	14E	6840
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14SR	I	Graham Guard Station	9	7N	10E	5690
15E9S	I	Jackson Peak	7	8N	9E	7070
15F1SR	I	Moores Creek Summit	19	7N	7E	6100
15F6S	I	Prairie	13	2N	7E	4800
15F3	I	Road Creek	5	5N	8E	5380
15F5SR	I	Trinity Mountain	6	3N	9E	7770
		CANYON CREEK				
15F7S	I	Bennett Mountain	7	2S	9E	6560
15F12	I	Little Camas Flat	21	1S	9E	4940
		PAYETTE RIVER				
15E11S	I	Banner Summit	11	11N	10E	7040
16F2	I	Bogus Basin	16	5N	3E	6340
15E8SR	I	Cozy Cove	17	11N	7E	5380
15E3	I	Crawford Ranger Station	21	14N	4E	4860
15E10	I	Deadwood Airstrip	8	11N	7E	5360
15E4S	I	Deadwood Summit	13	14N	7E	6860
15E1	I	Lake Fork	3	18N	4E	5290
16E1	I	Rock Flat Summit	1	18N	2E	5310
15D1S	I	Secesh Summit	4	21N	4E	6520
15D2	I	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5260
		WEISER RIVER				
16D1	I	Boulder Creek	16	20N	1W	5440
16E2	I	Placer Creek	15	17N	3W	5860
16E5S	I	Squaw Flat	32	17N	2E	6240
16D8S	I	West Branch	15	20N	1W	5560
		MANN CREEK				
6E10S	I	Bear Saddle	29	15N	5W	6180
16E9	I	Mann Creek	20	15N	5W	6080
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

MIDDLE SNAKE RIVER BASIN SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forcast Point
- Snow Course
- Snow Course and SNOTEL Site
- Aerial Snow Depth Gage

USDA SCS PORTLAND, OR 1981 M7-OL 22023-3

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE

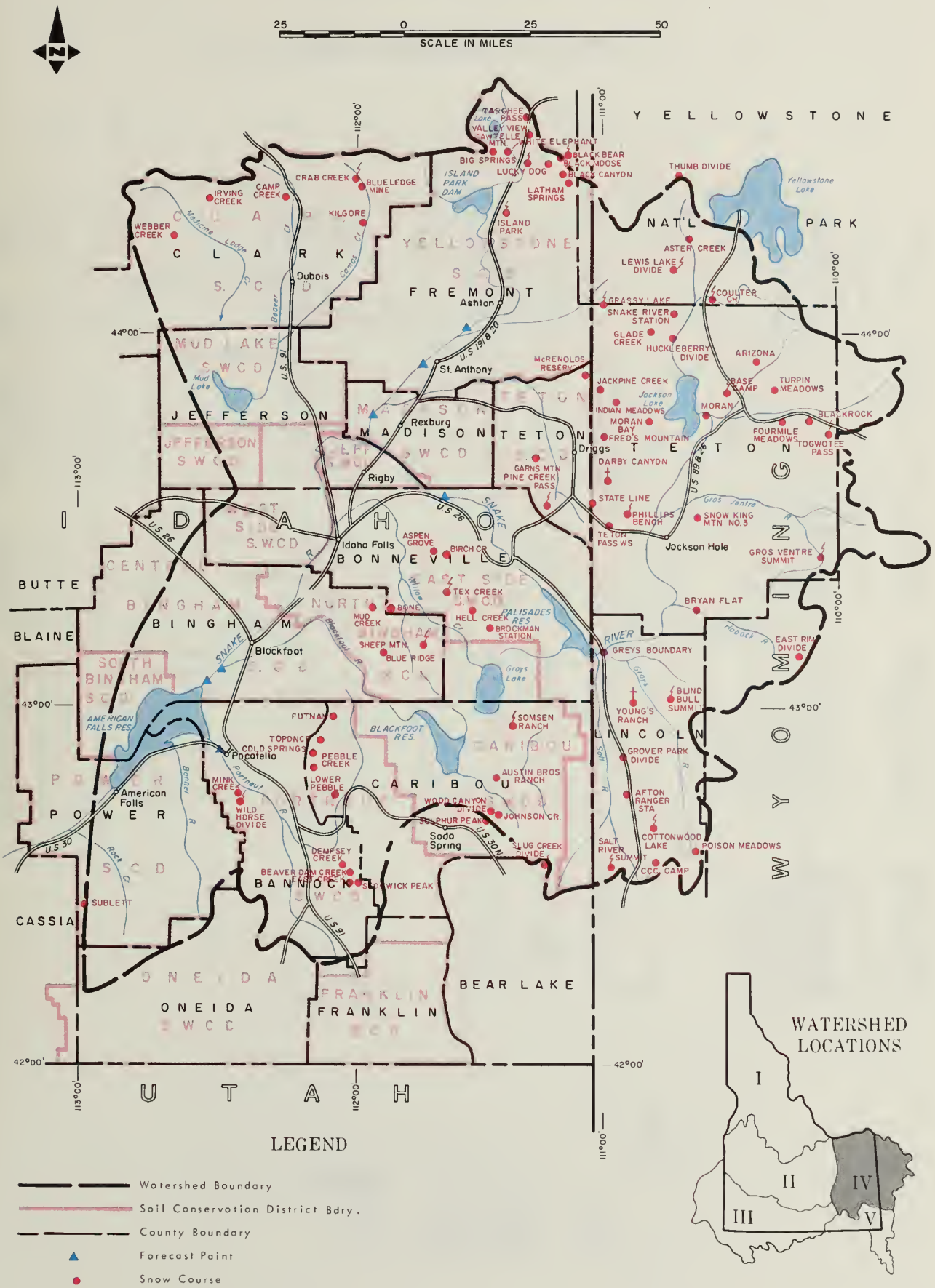
No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elevation
		RAFT RIVER				
13G2	I	Boy Scout Camp	8	14S	24E	7740
13H2	U	Clear Creek Meadows	26	14N	14W	9420
13G1S	I	Howell Canyon	2	13S	24E	7980
13G4	I	Indian Grove	14	15S	23E	7560
13G3	I	Logger Springs	2	15S	23E	8120
13H1	U	One Mile Summit	17	14N	14W	7330
12G8	I	Sublett	17	12S	30E	5950
		GOOSE - TRAPPER CREEK				
14G3	I	Badger Gulch	24	15S	19E	6660
14G1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670
		SALMON FALLS CREEK				
14G5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
15H13S	N	Goat Creek	31	46N	60E	8880
14G2S	I	Magic Mountain	25	14S	18E	6880
14G6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500
		BRUNEAU RIVER				
15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S	N	Pole Creek Ranger Station	13	46N	50E	8360
15H3S	N	Seventy-six Creek	6	44N	58E	7100
		OWYHEE RIVER				
16G6	I	Antelope Ridge	35	8S	1W	6140
18F5	O	Barren Valley	26	17S	38E	4200
16G9A	I	Battle Creek	10	11S	1E	5720
15H4	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4A	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7S	I	Mud Flat	34	9S	2W	5730
17G5A	O	Oregon Canyon	9	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16G11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3	I	Silver City	7	5S	3W	6400
16G1S	I	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12A	I	Vaught Ranch	10	11S	1W	5950
16G13A	I	War Eagle	20	5S	3W	7280

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

UPPER SNAKE RIVER BASIN



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and SNOTEL Site
- Aeriol Snow Depth Gage

WATERSHED LOCATIONS

USDA-SCS-PORTLAND, OR 1981 M7-OL-22023-4

INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
SNAKE RIVER-WYOMING						
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44°17'		110°38'	7700
10F2S	Wy	Base Camp	20	46N	113W	6900
10F7S	Wy	Blackrock	4	44N	111W	8600
10G2S	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5S	Wy	Cottonwood Lake	25	31N	118W	7500
10E10S	Wy	Coulter Creek	44°09'		110°33'	7600
10F17	Wy	East Rim Divide	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19S	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9S	Wy	Lewis Lake Divide	44°13'		110°40'	7900
10F4	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8S	Wy	Salt River Summit	32	29N	118W	7900
10E12	Wy	Snake River Station	9	48N	115W	6780
10F20	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44°22'		110°35'	7900
10F9S	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530
HENRY'S FORK RIVER						
11E9S	1	Big Springs	4	13N	44E	6400
11E35S	M	Black Bear	27	15S	5E	7950
11E18	1	Black Canyon	11	13N	45E	7960
11E19	1	Black Moose	33	14N	45E	8160
10E15S	Wy	Grassy Lake	6	48N	117W	7230
11E10S	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7630
11E14	I	Lucky Dog	2	13N	44E	6860
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	1	Targhee Pass	32	16N	44E	6980
11E8	I	Valley View	12	15N	43E	6680
11E36	I	White Elephant	17	14N	43E	7710
TETON RIVER						
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6720
10F23S	Wy	Phillips Bench	43°31'		110°55'	8200
11F2	I	Pine Creek Pass	24	3N	44E	6810
11F1	I	State Line	32	3N	46E	6660
10F13	Wy	Teton W.S.	43°30'		110°59'	7740

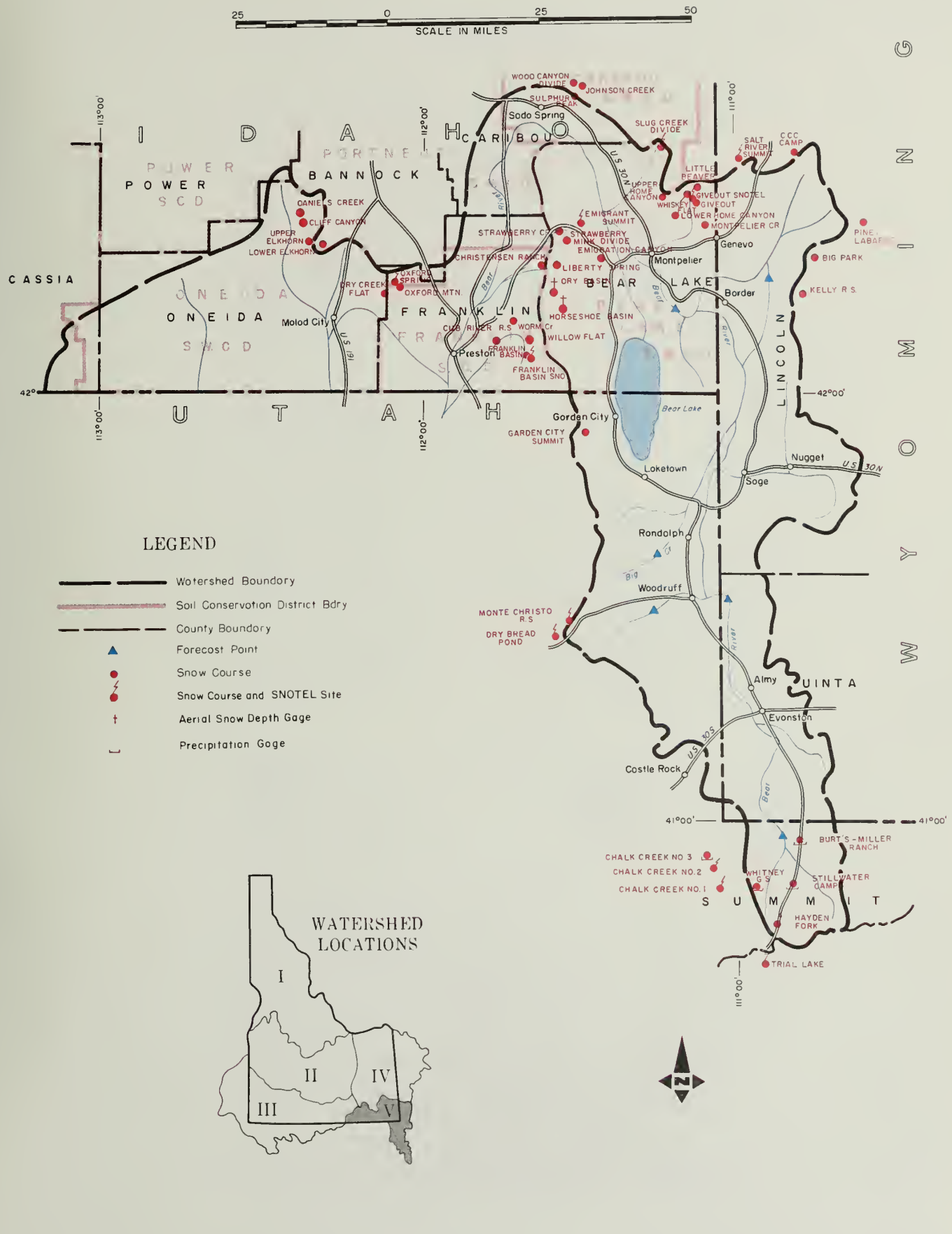
No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
CAMAS-BEAVER CREEK						
11E11	I	Blue Ledge Mine	21	13N	38E	6900
12E3	I	Camp Creek	21	13N	36E	6580
11E17S	I	Crab Creek	21	13N	38E	6860
11E12	I	Kilgore	6	12N	39E	6200
MEDICINE LODGE CREEK						
12E4	1	Irving Creek	20	13N	33E	7035
12E5	1	Webber Creek	23	12N	32E	6700
WILLOW CREEK						
11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	1	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7350
11F14	I	Mud Creek	4	2S	39E	7100
11F11SR	1	Sheep Mountain	30	2S	41E	6570
11F5SR	I	Tex Creek	36	1N	41E	6650
BLACKFOOT RIVER						
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11F17	I	Blue Ridge	35	2S	39E	6780
11G22	I	Johnson Creek	4	9S	43E	6730
11G5S	I	Slug Creek Divide	15	10S	44E	7225
11G1S	I	Somsen Ranch	25	5S	43E	7000
11G19	1	Sulphur Peak	8	9S	43E	7070
11G23	I	Wood Canyon Divide	5	9S	43E	7450
FORT PORTNEUF RIVER						
12G7	I	Beaverdam Creek	22	10S	38E	6120
12G16	I	Cold Springs	15	7S	37E	7000
12G5	I	Dempsey Creek	18	10S	38E	6100
11G24	I	East Creek	26	10S	38E	7000
12G6	I	Lower Pebble	7	8S	38E	5780
12G1	I	Mink Creek	33	7S	34E	6410
12G2	I	Pebble Creek	34	7S	37E	6550
12G14	I	Putnam	2	6S	37E	7220
11G17	I	Sedgwick Peak	30	10S	39E	7850
12G15	I	Toponce	23	6S	37E	6160
12G17S	I	Wildhorse Divide	4	8S	34E	6490

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

GREAT BASIN



USDA SCS PORTLAND, OR 1981 M7-QL-22073-5

INDEX to SNOW COURSES

GREAT BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elevation
		BEAR RIVER				
10G11	Wy	Big Park	7	27N	117W	8700
11H13P	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burts-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300
		MONTPELIER CREEK				
11G16	I	Giveout	2	12S	45E	6840
11G25S	I	Giveout Snotel	2	12S	45E	6930
11G20	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G18	I	Montpelier Creek	14	12S	45E	6540
11G26	I	Upper Home Canyon	31	11S	45E	8560
11G21	I	Whiskey Flat	26	11S	45E	6960
		MINK CREEK				
11G11	I	Christensen Ranch	27	13S	41E	5560
11G14A	I	Dry Basin	30	13S	42E	7820
11G6S	I	Emigrant Summit	21	12S	42E	7390
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	13S	42E	8600
11G9	I	Strawberry Creek	9	13S	41E	5820
11G10	I	Strawberry Mink Divide	14	13S	41E	6720
		CUB RIVER				
11G12	I	Cub River Ranger Station	9	15S	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G2S	I	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620
		MALAD RIVER				
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	13S	37E	6360
12G11	I	Lower Elkhorn	30	12S	36E	6960
12G3	I	Oxford Mountain	27	13S	37E	6800
12G18S	I	Oxford Spring	27	13S	37E	6740
12G10	I	Upper Elkhorn	25	12S	35E	7140

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage
10J7P	Precipitation gage

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

(DETACH HERE)

IMPORTANT NOTICE

WATER SUPPLY OUTLOOK FOR IDAHO

If you wish to continue to receive this publication, detach this page, sign your name in the space below, fold on the heavy line, staple or tape the folded page and mail. If more than one copy of the publication is desired, place the number in the box by your signature.

☐ Signed: _____

Suggestions, comments or remarks: _____

_____

_____

Print or type your name and address on back of this sheet, if it is not there already

(FOLD HERE)

RETURN IF NOT DELIVERED
UNITED STATES
DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
304 N. 8th. ST. ROOM 345
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF
AGRICULTURE
AGR-101

FIRST CLASS MAIL

SNOW SURVEY SUPERVISOR
SOIL CONSERVATION SERVICE
304 N. 8th ST. ROOM 345
BOISE, IDAHO 83702

(STAPLE OR TAPE HERE)

M7-L-22023A

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Room 345
304 N. 8th St.
Boise, Idaho 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

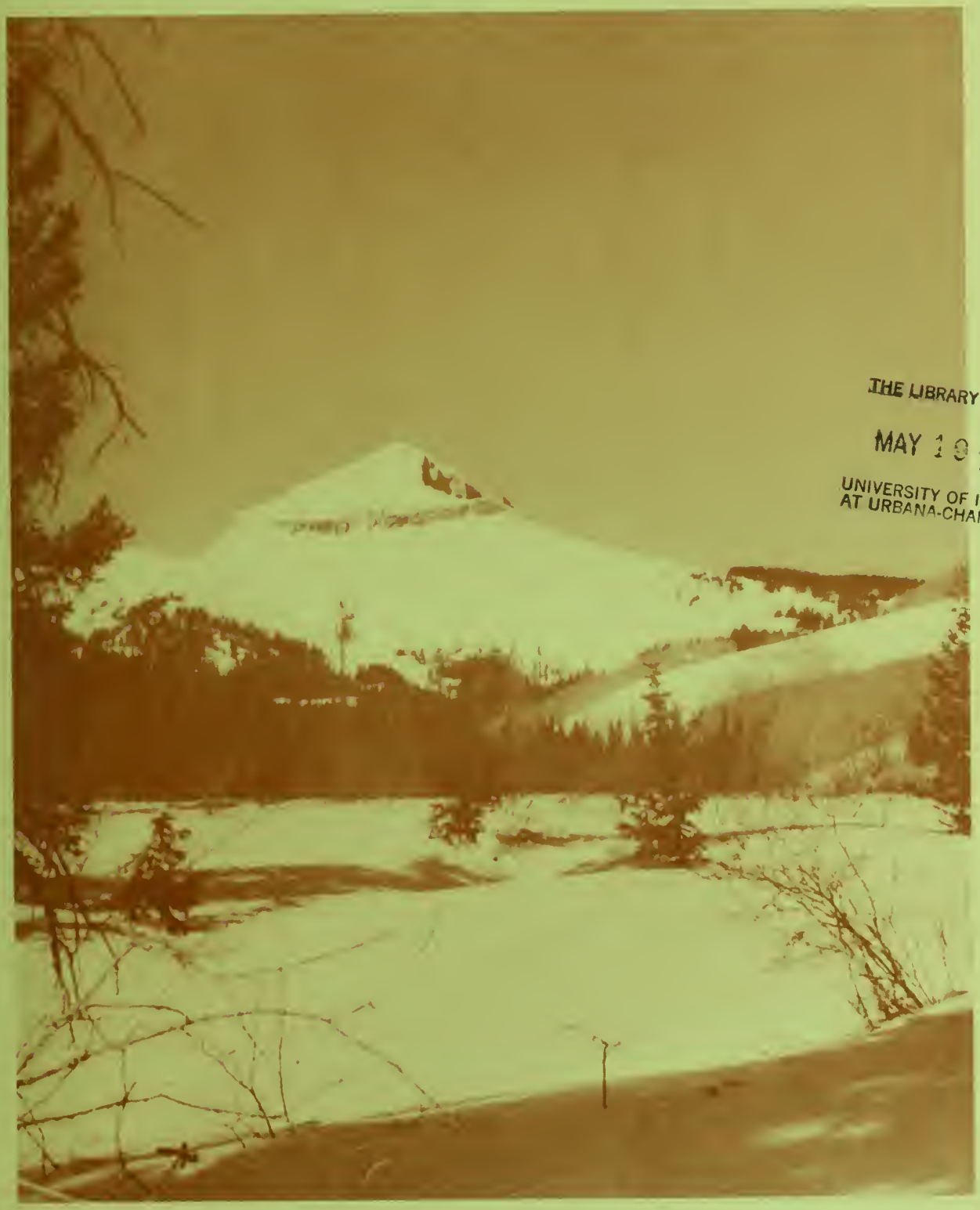
Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA, IL 61801

1.5
36wi

Water Supply Outlook For Idaho



THE LIBRARY OF THE
MAY 19 1982
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
May 1. 1982

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Lone Cone, near Norwood, Colorado, blanketed by its winter mantle of snow.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR MAY 1, 1982

In general, water supplies are expected to be good to excellent on all watersheds throughout the State. Runoff is forecast to be above to well above normal statewide, ranging from a low of 113 percent on the Clearwater at Spalding in northern Idaho to a high of 160 percent on the Owyhee River drainage in southwestern Idaho.

April weather again brought above normal precipitation and below normal temperatures. This now makes seven months out of seven that precipitation has been well above normal for Idaho. For April, precipitation in Idaho has averaged 140 percent of normal for a range from 69 percent at Boise to 316 percent at Ketchum. For the water year, the State now stands at 148 percent of normal.

Temperatures across the State averaged 4° F. below normal for April.

The cool weather and above normal precipitation has greatly increased the potential for high volume flows and flooding may occur on many streams throughout Idaho. Above normal May precipitation or temperatures could create critical flooding situations. Some areas of major concern are the Big Wood River drainage where the snowpack is 135 to 200 percent of normal; the Salmon at Salmon; the Henry Fork at Rexburg; the Teton drainage, and the Portneuf River drainage. A potential for minor flooding also exists on the Clearwater, Bruneau, Payette and Boise River drainages.

Farmers, ranchers, and others should remove or be prepared to remove livestock and equipment from potential floodways.

Reservoirs are now beginning to fill and many smaller reservoirs are full or nearing capacity. Most reservoirs throughout the State are expected to fill by mid-June.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

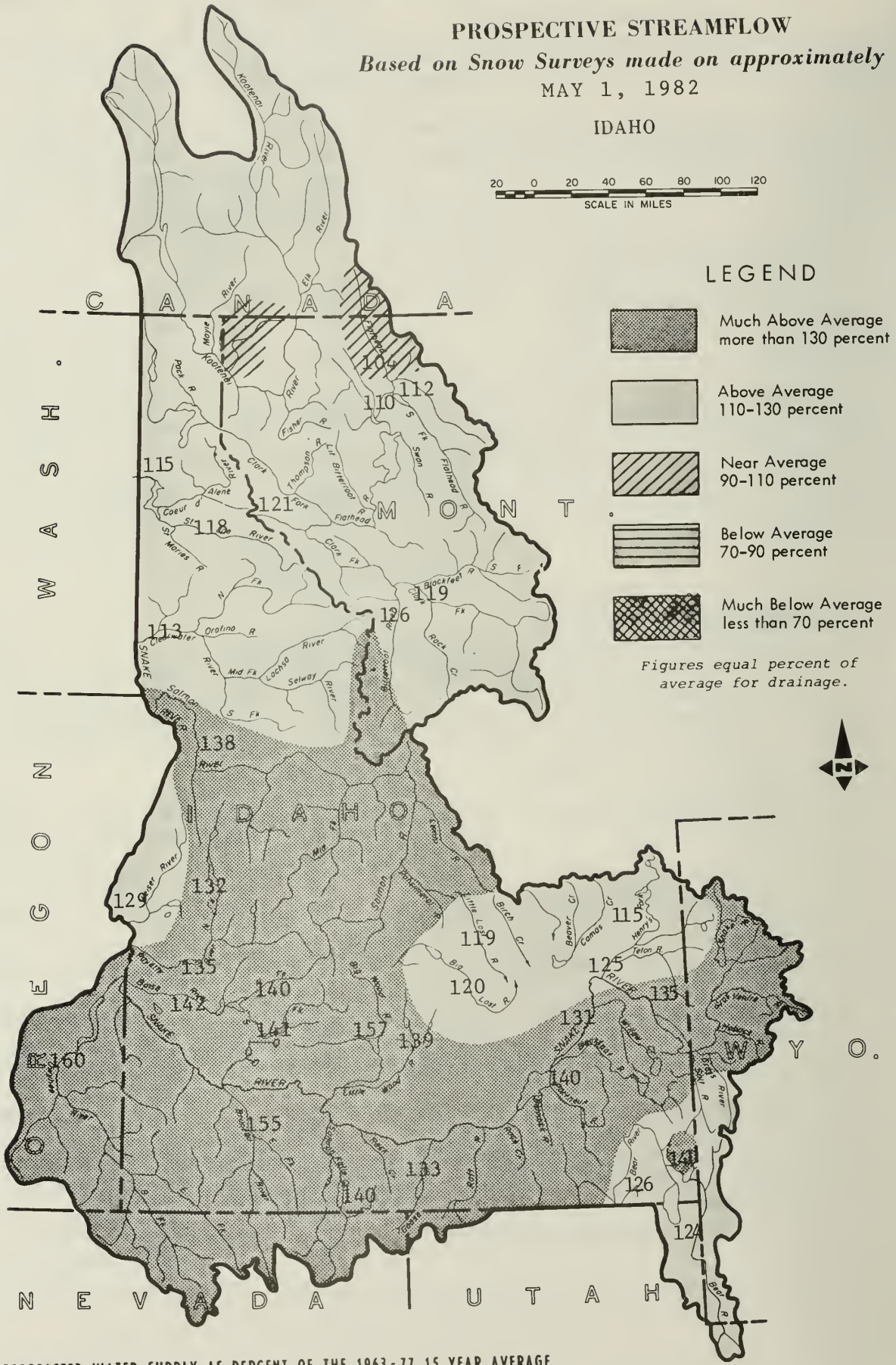
DRAINAGE DIVISIONS	Winter April 1982		Fall - Winter Nov. 81 - April 82	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.61	- .01	16.66	+ 1.65
Flathead	1.98	+ .34	14.54	+ 2.17
Clark Fork	1.62	+ .29	12.26	+ 2.93
Pend Oreille-Spokane	3.31	+ 1.49	23.26	+ 3.89
Upper Snake	2.20	+ .41	16.36	+ 4.46
Snake River Plain	.70	- .29	7.88	+ 1.81
Salmon-Payette-Boise	1.91	+ .48	18.80	+ 5.58
Clearwater	3.31	+ .19	23.57	+ 2.57
Owyhee-Malheur	.69	- .06	9.86	+ 3.44

1/ Preliminary analysis and data by the National Weather Service and Meteorlogical Service of Canada.

2/ Departure from 15-year (1963-1977) drainage division average.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	9160	113	May-Sep	--	8116
		7900	113	May-Jul	--	6966
		6100	113	May-Jun	--	5402
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	14700	120	May-Sep	--	12207
		13200	121	May-Jul	--	10945
		11000	121	May-Jun	--	9059
SPOKANE RIVER						
Post Falls 1/	(at)	2360	115	May-Sep	--	2052
St. Joe River						
Calder	(at)	1240	118	May-Sep	--	1053
		1170	119	May-Jul	--	984
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 2/	(at)	1205	133	Apr-Sep	--	903
Palisades Inflow 2/		5280	137	Apr-Sep	--	3863
Heise 3/	(nr)	5180	135	May-Sep	--	3824
Blackfoot 4/	(nr)	5430	131	May-Jul	--	4143
Henrys Fork						
Ashton 5/	(nr)	730	115	May-Sep	--	634
Rexburg 6/	(nr)	1730	125	May-Sep	--	1387
Portneuf River						
Topaz	(at)	99	140	May-Sep	--	71
Oakley Reservoir Inflow		32	133	May-Sep	--	24
Salmon Falls Creek						
San Jacinto	(nr)	88	140	May-Sep	--	63
		82	141	May-Jul	--	58
Bruneau River						
Hot Springs	(nr)	213	155	May-Sep	--	183
Little Lost River						
Howe	(nr)	46.8	120	May-Sep	--	39
Wet Creek	(bl)	44	119	May-Sep	--	37
		35.5	118	May-Jul	--	30


PROSPECTIVE STREAMFLOW
Based on Snow Surveys made on approximately
MAY 1, 1982
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Much Above Average more than 130 percent
Above Average 110-130 percent
Near Average 90-110 percent
Below Average 70-90 percent
Much Below Average less than 70 percent
Figures equal percent of average for drainage.
CANADA
MONTANA
WASHINGTON
OREGON
IDAHO
WYO.
NEVADA
UTAH
104
112
110
115
121
118
119
126
113
138
132
129
135
142
140
141
157
139
160
155
133
140
115
119
120
125
135
131
140
126
124
FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average[†]
Big Lost River						
Howell Ranch	(at)	257	120	May-Sep	--	214
		173	120	May-Jun	--	144
		227	120	May-Jul	--	189
Mackay 7/	(nr)	230	120	May-Sep	--	191
Big Wood River						
Magic Reservoir		360	157	May-Sep	--	229
Inflow 8/		335	157	May-Jul	--	213
Little Wood River						
Carey	(nr)	111	139	May-Sep	--	80
Boise River						
Twin Springs	(nr)	863	140	May-Sep	--	616
		782	140	May-Jul	--	559
Boise 9/	(nr)	1880	142	May-Sep	--	1326
		1720	143	May-Jul	--	1206
South Fork						
Anderson Dam 10/	(at)	720	141	May-Sep	--	511
		664	141	May-Jul	--	472
Owyhee River						
Gold Cr., Nv. 11/	(nr)	39	180	Apr-Jul	--	22
Owyhee, Nv. 11/	(nr)	124	170	Apr-Jul	--	80
Lake Owyhee		359	160	May-Sep	--	224
net inflow 12/		316	160	May-Jul	--	197
Payette River						
Horseshoe Bend 13/	(nr)	2110	135	May-Sep	--	1567
		1930	135	May-Jul	--	1428
North Fork						
Cascade 14/	(at)	587	132	May-Jul	--	445
		634	132	May-Sep	--	480
Banks 14/	(nr)	791	132	May-Sep	--	599
Weiser River						
Weiser	(nr)	533	129	Apr-Jul	--	414
		569	129	Apr-Sep	--	442
Salmon River						
Whitebird	(at)	9110	138	May-Sep	--	6581
Clearwater River						
Spalding	(at)	8010	113	May-Sep	--	7081

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[C] Thousand Acre Feet	THIS YEAR FORECAST[C] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
GREAT BASIN						
BEAR RIVER						
Harer	(at)	336	124	May-Sep	--	271
Montpelier Creek						
Montpelier	(nr)	16.9	141	May-Sep	--	12
Cub River						
Preston	(nr)	62	126	May-Sep	--	49

1/ Observed flow corrected for storage in Coeur d'Alene Lake.
2/ Corrected for storage in Jackson Lake.
3/ Corrected for storage in Jackson Lake and Palisades.
4/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
5/ Corrected for storage in Henry's Lake and Island Park Reservoir.
6/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
7/ Observed flow corrected for storage in Mackay Reservoir.
8/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
9/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
10/ Corrected for storage in Anderson Ranch Reservoir.
11/ Corrected for storage in Wildhorse Reservoir.
12/ From Bureau of Reclamation records of inflow.
13/ Corrected for storage in Cascade and Deadwood Reservoirs.
14/ Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

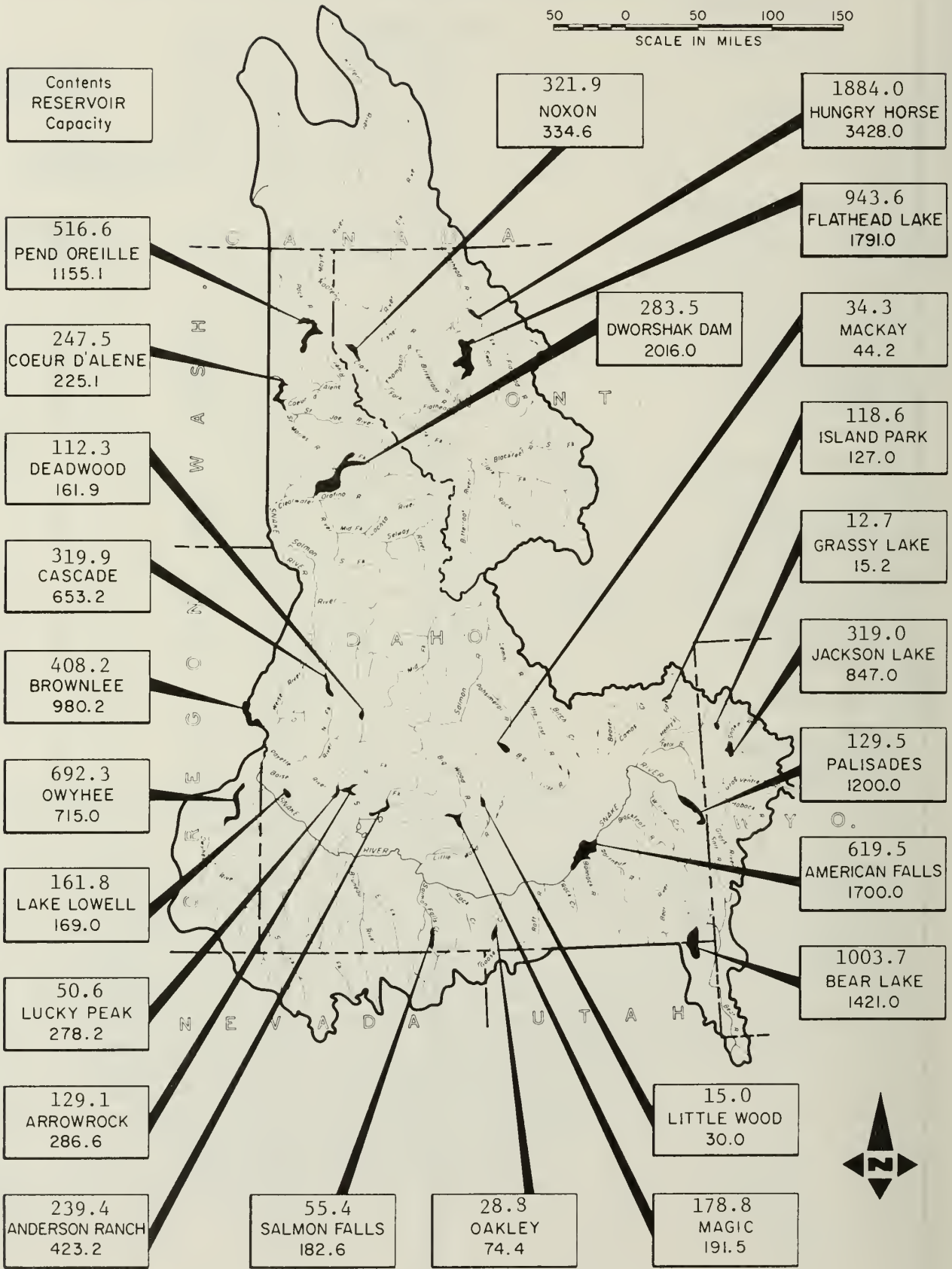
COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN			
Kootenai River	51	174	123
Pend Oreille River	87	244	124
Clark Fork River	54	236	125
Flathead River	44	152	113
Priest River	4 - 5	196	128
Spokane River	9	305	100
LOWER SNAKE RIVER BASIN			
Clearwater River	18 - 19	271	117
Salmon River	14 - 17	271	139
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	4	278	125
Big Lost River	4	333	147
Little Wood River	4	436	144
Big Wood River	9 - 10	258	152
Boise River	10	304	139
Payette River	11 - 14	300	137
Weiser River	1	-	133
MIDDLE SNAKE RIVER BASIN - Southside			
Salmon Falls Creek	5	266	118
Bruneau River	2	219	106
Owyhee River	2	483	154
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	15	324	133
Henrys Fork River	6 - 7	384	135
Teton River	4 - 5	551	137
Blackfoot River	2	-	125
GREAT BASIN			
Bear River - Upper	6	398	128
Bear River - Lower	14	542	153
Montpelier Creek	6	1136	168
Mink Creek	1 - 2	1070	125
Cub River	2 - 3	474	260

RESERVOIR STORAGE

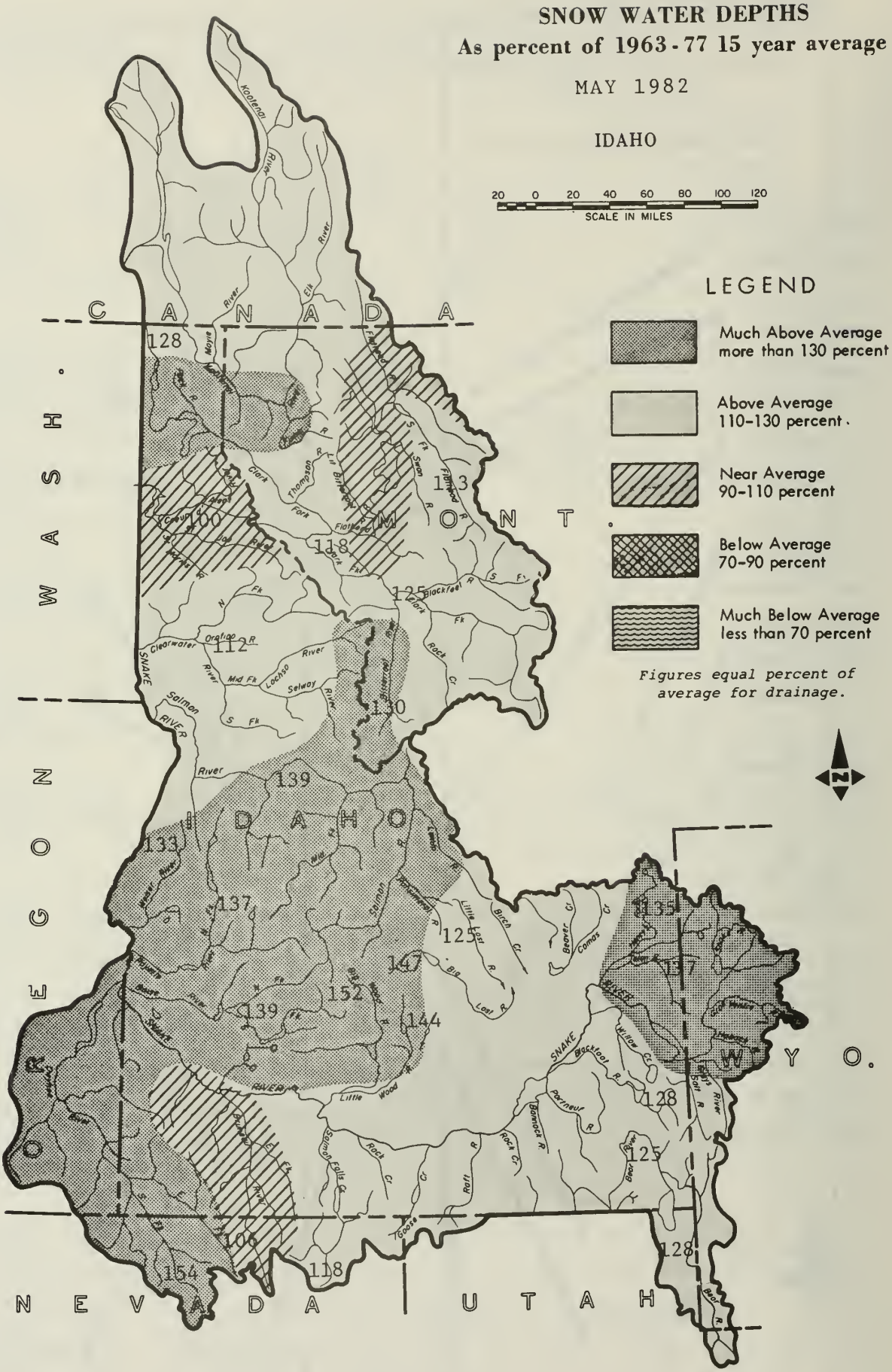
USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1982



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	1884.0	2683.0	1896.0
Flathead	1791.0	943.6	1022.0	915.3
Pend Oreille	1155.1	516.6	726.7	483.0
Noxon	334.6	321.9	315.1	141.7
Spokane				
Coeur d'Alene	225.1	247.5	248.0	238.4
SNAKE BASIN				
Jackson Lake	624.4	319.0	612.8	572.3
Palisades	1200.0	129.5	1201.3	666.3
American Falls	1673.0	1619.5	1665.0	1488.4
Island Park	127.0	118.6	132.5	126.3
Grassy Lake	15.2	12.7	13.5	11.1
Brownlee	980.2	408.2	992.3	406.4
Goose-Trapper Creeks				
Oakley	74.4	28.8	34.2	37.8
Salmon Falls Creek				
Salmon Falls	182.6	55.4	68.0	81.0
Big Lost				
Mackay	44.2	34.3	44.9	34.0
Big Wood				
Magic	191.5	178.8	175.2	172.7
Little Wood				
Little Wood	30.0	15.0	30.2	24.5
Fish Creek				
Carey Valley	14.4	14.4	12.3	--
Boise				
Anderson Ranch	423.2	239.4	382.6	289.3
Arrowrock	286.6	129.1	286.6	213.2
Lucky Peak	278.2	50.6	254.6	134.1
Lake Lowell (Deer Flat)	169.0	161.8	176.0	151.2
Owyhee				
Owyhee	715.0	692.9	634.7	591.2
Payette				
Cascade	653.2	319.9	624.3	330.9
Deadwood	161.9	112.3	145.2	98.2
Weiser				
Mann Creek	11.1	11.2	11.3	--
Clearwater				
Dworshak	2016.0	283.5	1855.2	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1003.7	1070.2	1095.0


SNOW WATER DEPTHS
As percent of 1963-77 15 year average
MAY 1982
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Much Above Average more than 130 percent
Above Average 110-130 percent.
Near Average 90-110 percent
Below Average 70-90 percent
Much Below Average less than 70 percent
Figures equal percent of average for drainage.
CANADA
MONT.
IDAHO
WASH.
OREGON
NEVADA
UTAH
WYO.
128
113
100
118
125
112
130
139
133
137
125
147
152
139
144
135
137
128
125
106
154
118
128

SNOW

DRAINAGE BASIN and or SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
Name & Drainage			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Above Burke		Coeur d'Alene	4100	4/29	48	20.6	4.6	19.7*
Aspen Grove		Willow	6500	5/4	0	0.0	--	--
Atlanta Summit		Boise	7600		Not measured		17.8	36.6
Atlanta Townsite		Boise	5280	4/28	17	7.5	--	--
Bad Bear		Boise	4940	5/3	18	8.8	0.0	6.8
Banner Summit		Payette	7040	4/28	100	43.6	17.8	--
Bear Basin		Little Salmon	5350	4/28	54	21.2	7.2	--
Bear Canyon		Big Lost	7900	4/28	73	28.1	12.8	18.9*
Bear Creek	(Nv)	Jarbidge	8040	4/27	61	27.5	9.0	21.2*
Bear Mountain		Clark Fork	5400	4/26	171	83.9	46.4	67.7*
Benton Meadow		Priest	2370	4/29	0	0.0	0.0	0.0*
Benton Spring		Priest	4920	4/29	44	17.7	6.5	16.7
Big Creek Summit		Salmon	6580	4/25	127	55.3	25.0	37.8
Big Springs		Henrys Fork	6400	4/30	47	20.6	0.0	17.7
Birch Creek		Willow	6800	5/4	0	0.0	--	--
Black Bear	(Mt)	Madison	7950	4/27	129	59.6	--	--
Blue Ridge		Blackfoot	6780	4/30	52	24.5	0.0	--
Bogus Basin		Payette	6340	5/3	61	27.5	2.3	24.0*
Bogus Basin Road		Boise	5540	5/3	0	0.0	0.0	0.4*
Boulder Creek		Weiser	5440	4/29	54	22.4	0.5	16.8
Breezy Saddle		Clearwater	5010	4/29	79	30.2	8.3	--
Brundage Mountain		Little Salmon	7560	4/27	139	65.4	37.5	52.4*
Buck Meadows		Selway	5650	4/29	88	34.7	11.6	29.9*
Cayuse Airstrip		Clearwater	3500	4/29	2	0.8	0.0	1.0*
Coolwater Mountain		Lochsa	6040	4/29	130	49.3	18.1	35.5*
Copper Basin		Big Lost	7640	4/28	32	13.5	0.0	8.5*
Copper Ridge		Coeur d'Alene	4820	5/3	39	16.7	0.0	25.7
Couch Summit		Boise	6840	5/1	51	18.0	--	14.9*
Cozy Cove		Deadwood	5380	4/28	35	13.8	0.0	10.7*
Crater Meadows		Clearwater	5960	4/29	125	49.4	22.0	47.8
Crawford Ranger Sta.		Payette	4860	4/25	0	0.0	0.0	0.4
Crooked Fork		Lochsa	3610	4/30	18	7.8	0.0	3.5*
Cub River Ranger Sta.		Cub	5450	4/25	1	0.6	0.0	0.0
Deadline		Salmon Falls	7400	4/30	47	21.9	6.5	21.7*
Deadline South		Salmon Falls	7450	4/30	54	24.1	--	--
Deadwood Airstrip		Deadwood	5360	4/28	33	14.2	0.0	8.6*
Deadwood Summit		Deadwood	6860	4/28	145	68.9	32.5	48.2*
Dollarhide Summit		Big Wood	8420	4/28	96	39.4	16.0	24.3*
Elk Butte		Clearwater	5550	4/29	92	32.4	8.1	34.1
Emigrant Summit		Bear	7390	4/30	79	35.3	3.3	24.9*
Fairview Guard Sta.		Little Lost	6750	4/30	0	0.0	--	--
Fish Lake Airstrip		Lochsa	5650	4/29	113	45.2	20.1	41.4*
Forty-nine Meadows		Clearwater	4830	4/29	68	28.0	7.1	26.9
Franklin Basin		Cub	8040	4/25	93	41.2	11.7	27.0
Freds Mountain	(Wy)	Teton	8150	4/29	84	34.9	11.3	21.1*
Galena		Big Wood	7440	4/28	67	27.6	6.2	15.9
Galena Snotel		Big Wood	7470	4/28	75	29.2	--	--
Galena Summit		Big Wood	8780	4/28	91	36.2	18.0	26.9
Garfield Ranger Sta.		Little Wood	6560	4/30	17	6.4	0.0	2.6*
Gibbons Pass	(Mt)	Bitterroot	7100	4/27	72	31.6	17.2	25.3
Giveout		Montpelier	6860	4/30	40	16.4	0.0	6.9*
Goat Creek	(Nv)	Salmon Falls	8880	4/30	65	26.5	10.2	20.8
Goat Lake		Clearwater	6500	4/29	141	54.4	27.7	51.9*
Graham Guard Sta.		Boise	5690	4/28	38	16.3	0.0	--
Graham Ranch		Big Wood	6270	4/28	51	18.4	3.3	9.2*
Granite Peak		St. Joe	6000	4/29	139	50.0	23.1	47.6*
Grassy Lake	(Wy)	Henrys Fork	7265	4/29	101	48.2	17.2	36.4
Halverson Creek		Kootenai	4850	4/26	144	69.7	41.1	43.5
Hemlock Butte		Clearwater	5810	4/29	142	55.6	21.0	52.4
Hilts Creek		Little Lost	8000	4/29	60	21.0	10.8	--
Hoodoo Basin	(Mt)	Clark Fork	6000	4/30	148	68.5	33.4	55.6*
Hoodoo Creek	(Mt)	Clark Fork	5900	4/30	136	61.8	30.1	52.0
Howell Canyon		Marsh Creek	7980	4/28	78	36.1	3.1	23.7*
Humboldt Gulch		Coeur d'Alene	4250	4/29	37	14.4	--	--
Hyndman Creek		Big Wood	7440	4/28	52	18.3	4.6	--
Idaho City		Boise	4000	5/3	0	0.0	--	--
Indian Meadows		Teton	8240	5/4	114	53.1	--	39.9*
Island Park		Henrys Fork	6290	4/30	35	15.7	0.0	11.4
Jackpine Creek	(Wy)	Teton	7350	5/4	58	26.1	6.5	24.1*
Jackson Peak		Boise	7070	4/28	98	42.1	19.3	26.8*
Lake Fork		Payette	5290	4/25	46	18.0	0.0	14.1*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW CO Name & Drainage		Elevation	THIS YEAR: Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	Average
Lemhi Pass	(Mt) Beaverhead	7480	4/27	33	11.3	0.0	9.2
Lemhi Ridge	(Mt) Beaverhead	8100	4/27	39	13.9	2.9	10.6*
Little Beaver	Montpelier	6970	4/30	42	18.6	0.0	11.4*
Lolo Pass	Lochsa	5240	4/30	74	33.4	9.3	31.4
Lookout	Coeur d'Alene	5140	4/29	93	40.4	14.2	35.4
Lost Garfield	Little Lost	6600	4/30	0	0.0	--	0.0*
Lost Lake	Clearwater	6110	4/29	170	63.6	31.4	62.5
Lost-Wood Divide	Big Lost	7900	4/28	80	32.8	13.1	24.8*
Lower Home Canyon	Montpelier	7640	4/29	44	16.8	0.0	11.1*
Lower Sands Creek	Coeur d'Alene	3120	5/3	40	15.9	0.0	18.3
Magic Mountain	Rock Creek	6880	4/30	48	22.3	8.5	18.8*
Mascot Mine	Big Wood	7780	4/28	62	22.9	7.4	15.5*
Mill Creek Summit	Salmon	8800	4/29	83	35.9	15.2	25.9
Montpelier Creek	Montpelier	6540	4/30	8	3.4	0.0	1.2*
Moonshine	Little Lost	7440	4/30	31	10.3	1.8	9.6*
Moores Creek Summit	Boise	6100	5/3	97	43.5	12.4	32.6
Moose Creek	N. F. Salmon	6200	4/30	51	21.2	5.0	16.6*
Morgan Creek	Salmon	7600	4/28	51	19.7	5.8	13.9
Mountain Meadows	Selway	6360	4/29	74	27.0	8.9	26.3*
Mount Baldy	Big Wood	8920	4/29	97	38.4	17.8	23.6*
Mud Creek	Willow	7100	4/30	59	28.4	--	--
Muldoon	Little Wood	6320	4/30	0	0.0	0.0	0.6*
Phillips Bench	(Wy) Teton	8200	4/30	106	46.0	18.4	31.5*
Pierce Ranger Sta.	Clearwater	3080	5/4	0	0.0	0.0	1.9
Pine Creek Pass	Teton	6810	4/29	50	22.2	0.0	14.8
Pole Creek Ranger Sta.	Jarbidge	8360	4/30	66	29.1	13.7	25.8*
Rock Flat Summit	Payette	5310	4/28	54	21.5	5.8	17.9
Savage Pass	Lochsa	6170	4/28	89	40.3	17.3	29.3*
Sawmill Canyon	Little Lost	7000	4/30	19	6.3	0.0	3.8*
Sawtell Mountain	Henrys	8720	4/30	126	56.4	26.9	37.1*
Schweitzer Basin	Pend Oreille	6090	4/30	146	66.4	--	--
Schweitzer Bowl	Pend Oreille	4800	4/30	88	40.1	--	26.8*
Schweitzer Ridge	Pend Oreille	6200	4/30	136	61.3	30.4	47.5*
Secesh Summit	Payette	6520	4/25	121	55.7	14.4	36.9*
Seventy Six Creek	Jarbidge-Bruneau	7100	4/27	36	16.0	0.0	4.7*
Shanghai Summit	Clearwater	4570	4/29	67	25.2	0.0	23.1
Sherwin	St. Maries	3200	4/29	23	10.0	0.0	7.2*
Slug Creek Divide	Blackfoot	7230	4/29	51	21.2	0.0	17.0*
Smith Creek	Kootenai	4800	4/29	122	58.0	36.8	47.4
Soldier Ranger Sta.	Big Wood	5740	5/1	15	5.7	--	1.1*
Somsen Ranch	Willow Creek	6840	4/29	43	18.3	0.0	--
South Mountain	Jordan-Owyhee	6500	4/29	36	16.0	0.0	7.1*
Squaw Flat	Weiser	6240	4/25	81	30.4	5.8	--
Squaw Meadow	Payette	5900	4/25	114	53.7	14.5	36.1*
State Line	Teton	6660	4/29	36	14.9	0.0	10.7
Stickney Mill	Big Lost	7430	4/28	31	11.8	0.0	6.5*
Strawberry Creek	Mink	5820	4/30	0	0.0	--	3.4*
Swede Peak	Little Wood	7640	4/30	58	21.3	0.0	16.7*
Targhee Pass	Henrys Fork	6980	4/30	43	17.3	0.0	16.2*
Teton Pass W.S.	(Wy) Teton	7740	4/28	88	38.2	15.8	28.9*
Trinity Mountain	Boise	7770	4/28	134	63.3	20.9	44.1*
Upper Home CAnyon	Montpelier	8560	4/29	84	35.3	8.8	24.5*
Valley View	Henrys Fork	6680	4/30	48	21.1	T	14.5
Vienna Mine	Salmon	8960	4/28	128	58.6	26.7	39.9*
West Branch	Weiser	5560	4/29	68	25.9	--	--
Wet Creek Summit	Little Lost	7680	4/29	48	17.4	7.2	13.8*
Whiskey Flat	Montpelier	6960	4/30	24	9.6	0.0	4.5*
White Elephant	Henrys Fork	7710	4/30	90	38.0	12.5	--
Willow Flat	Cub	6070	4/25	28	13.7	0.0	5.5*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation , navigation , mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

551.513
Un36wi

Water Supply Outlook For Idaho

THE LIBRARY OF THE
JUN 1
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
June 1, 1982

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Mast af the usable water in western states ariginates as mountain snowfall. This snowfall accumulates during the winter and spring, several manths befare the snaw melts and appears as streamflaw. Since the runoff fram precipitation as snow is delayed, estimates af snawmelt runaff can be made well in advance of its accurrence. Streamflaw farecasts published in this report are based principally an measurement af the water equivalent of the mountain snowpack.

Farecasts became mare accurate as more af the data affecting runoff are measured. All farecasts assume that climatic factars during the remainder of the snow accumulation and melt seasan will interact with a resultant average effect an runaff. Early seasan farecasts are therefore subject to a greater change than those made an later dates.

The snaw caurse measurement is obtained by sampling snaw depth and water equivalent at surveyed and marked lacatians in mauntain areas. A tatal of abaut ten samples are taken at each lacation. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same locatian near the same dates each year.

Snaw surveys are made manthly ar semi-manthly fram January 1 thraugh June 1 in most states. There are about 1900 snaw caurses in Western United States and in the Calumbia Basin in British Calumbia. Netwarks of automatic snaw water equivalent and related data sensing devices, along with radia telemetry are expanding and will pravide a cantinuaus recard af snaw water and ather parameters at key locations.

Detailed data on snaw course and soil moisture measurements are presented in state and lacal reparts. Other data an reservair starage, summaries of precipitatian, current streamflow, and soil maisture canditians at valley elevatians are alsa included. The repart for Western United States presents a broad picture of water supply outlook conditions, including selected streamflaw farecasts, summary af snow accumulation ta date, and storage in larger reservairs.

Snow survey and soil moisture data for the period af record are published by the Sail Conservatian Service by states abaut every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 af each year.

COVER PHOTO: Lone Cone, near Norwood, Colorado, blanketed by its winter mantle of snow.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Canservation Service publishes reparts following the principal snow survey dates fram January 1 thraugh June 1 in coaperatian with state water administrators, agricultural experiment statians and athers. Capies af the reparts for Western United States and all state reparts may be abtained fram Soil Conservatian Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregan 97209.

Copies af state and local reports may alsa be obtained from state affices af the Soil Conservatian Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Mantana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spakane, Washington 99201
Wyaming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN

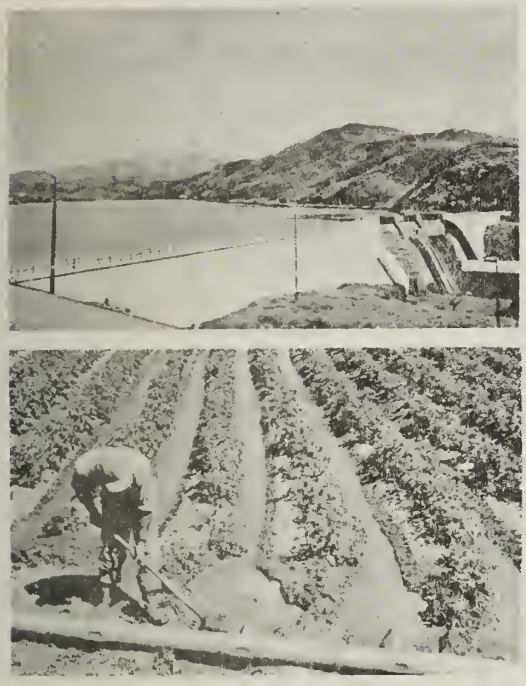
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR JUNE 1, 1982

The water supply for Idaho is forecast to be good to excellent throughout the State. Snow course measurements near June 1, indicate the snowpack conditions range from near average in Northern Idaho to well above average in the southern part of the State.

Cool temperatures during the month of May have delayed or slowed the runoff. In general streamflows are expected to remain near to well above normal through June and the early part of July. Flows in late summer and fall should also remain near or above normal.

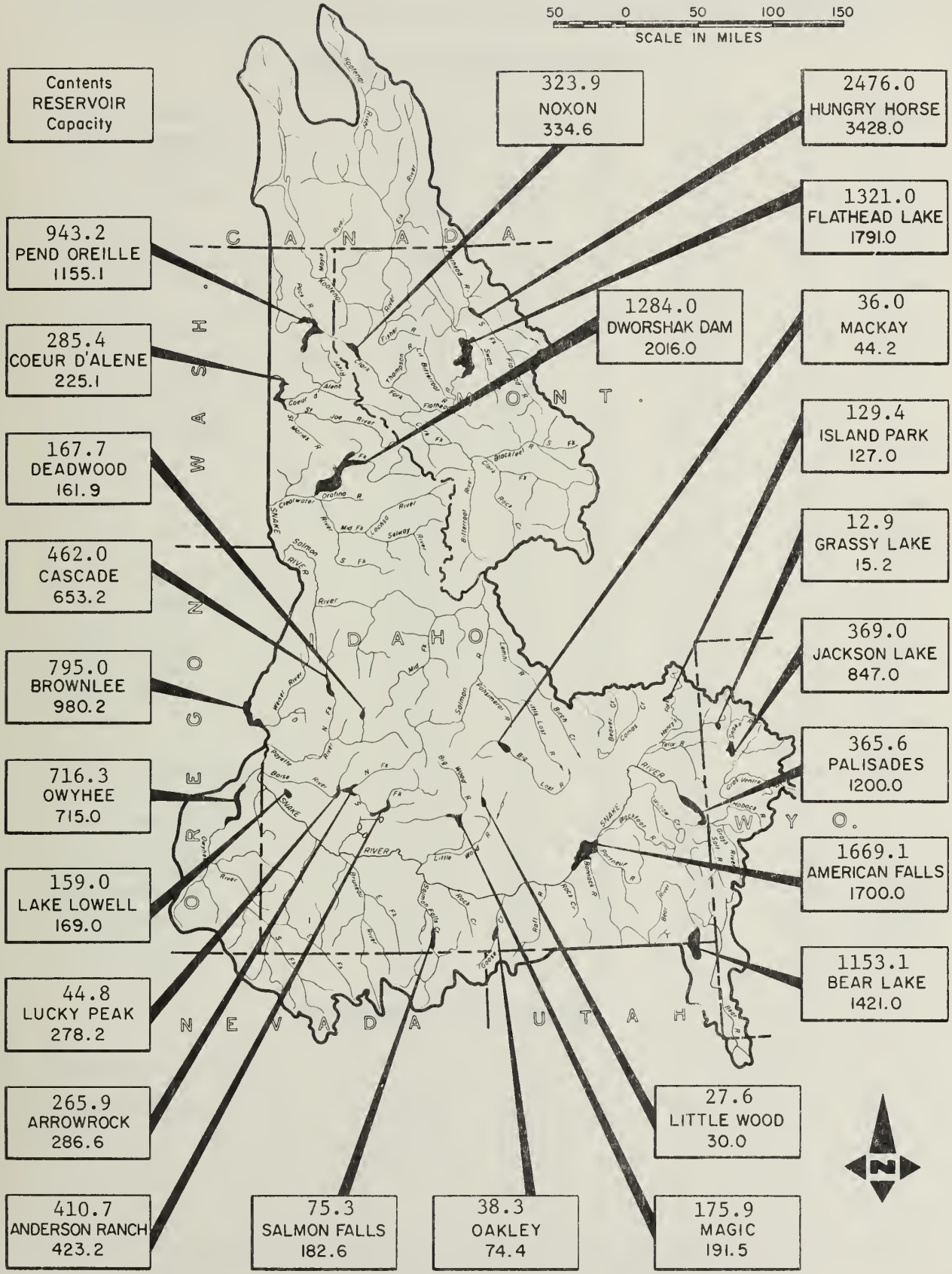
Most major reservoirs are full or nearing capacity. Exceptions are Lucky Peak, Palisades, Jackson Lake, and Oakley Reservoirs which vary from seventeen percent to fifty-nine percent of capacity. Nearly all reservoirs will fill by mid or late June. Due to ample supply of water and cool weather lasting through May and into June, water for irrigation demands will probably be less than normal and thus good carryover in most reservoirs can probably be expected next fall.

The outlook for June calls for below normal temperatures which will continue to delay the snow melt. Access to areas above 7,000 feet may be hampered by snow until late June or early July. People interested in accessing high elevation areas are advised to contact the local Forest Service office to obtain current conditions.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JUNE 1982



SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average b/
JUNE 1, 1982 MEASUREMENTS						
Atlanta Summit	7600	6/1	78	39.2	6.8	20.5*
Atlanta Townsite	5280	6/1	0	0.0	--	--
Banner Summit	7040	6/1	56	28.1	--	--
Big Creek Summit	6580	5/29	65	36.7	10.5	18.6
Bogus Basin	6340	6/2	0	0.0	--	3.5
Breezy Saddle	5010	6/1	0	0.0	0.0	--
Brundage Mountain	7560	5/28	95	49.2	18.2	36.9*
Coolwater Mountain	6040	6/1	82	34.7	5.2	16.4*
Cozy Cove	5380	6/1	0	0.0	--	--
Crater Meadows	5960	6/1	69	37.8	8.0	32.0*
Crawford Ranger Station	4860	5/29	0	0.0	0.0	--
Deadwood Airstrip	5360	6/1	0	0.0	--	--
Deadwood Summit	6860	6/1	88	48.0	14.8	--
Dollarhide Summit	8420	6/1	62	30.1	--	--
Elk Butte	5550	6/1	17	6.8	0.0	10.7*
Freds Mountain (Wy)	8150	5/28	48	20.0	4.8	--
Galena	7440	5/27	0	0.0	0.0	2.6*
Galena Summit	8780	5/27	49	24.0	10.3	13.9*
Goat Lake	6500	6/1	89	40.4	17.1	36.8*
Graham Guard Station	5690	6/1	0	0.0	--	--
Graham Ranch	6270	5/27	3	1.4	0.0	--
Granite Peak	6000	6/1	85	35.8	9.4	31.5*
Hemlock Butte	5810	6/2	80	35.6	3.3	30.9*
Jackson Peak	7070	6/1	52	26.6	4.4	11.9*
Lake Fork	5290	5/29	0	0.0	0.0	--
Lookout	5140	6/1	34	18.2	0.0	15.0*
Lost Lake	6110	6/1	108	49.6	16.2	46.4*
Moores Creek Summit	6100	6/2	47	24.2	20.2	12.5
Schweitzer Bowl	4800	6/1	16	9.3	13.2	--
Schwetizer Ridge	6200	6/1	79	41.8	11.2	--
Secesh Summit	6520	5/29	70	35.2	0.0	--
Shanghai Summit	4570	6/2	0	0.0	0.0	--
Squaw Meadow	5900	5/29	63	34.0	0.0	15.3*
Trinity Mountain	7770	6/1	78	42.7	9.5	25.7*
Vienna Mine	8960	6/1	91	48.3	17.5	29.4*
Willow Flat	6070	5/26	0	0.0	--	--
SUPPLEMENTAL MEASUREMENTS						
December 15, 1981						
Lost Wood Divide	7900	12/15	41	10.6	--	--

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average 1/

SUPPLEMENTAL MEASUREMENTS (Continued)

January 15, 1982

Aspen Grove		6500	1/13	32	9.5	--	--
Bad Bear		4940	1/18	45	11.4	3.7	--
Birch Creek		6800	1/13	24	5.7	--	--
Blue Ridge		6780	1/12	50	14.4	--	--
Bogus Basin		6340	1/18	52	14.3	4.7	--
Bogus Basin Road		5540	1/18	29	6.5	0.0	--
Bone		6200	1/12	21	5.4	--	--
Brockman Station		6430	1/11	29	7.2	--	--
Couch Summit		6840	1/11	50	11.7	--	--
Crawford Ranger Station		4860	1/10	24	5.1	--	--
Crooked Fork		3610	1/15	32	7.2	2.0	--
Darby Canyon	(Wy)	8250	1/13	66	17.8	--	--
Fish Lake Airstrip		5650	1/20	101	22.7	8.2	--
Galena		7440	1/18	60	16.2	8.2	--
Galena Summit		8780	1/18	66	19.3	8.8	--
Hemlock Butte		5810	1/20	114	28.1	7.7	--
Idaho City		4000	1/18	29	7.2	--	--
Indian Meadows		8240	1/14	90	27.7	--	--
Jackpine Creek	(Wy)	7350	1/14	51	15.0	--	--
Lava Creek (Hell Creek)		7350	1/11	44	12.1	--	--
Little Camas Flat		4940	1/11	29	8.0	--	--
Lolo Pass		5240	1/15	62	14.6	6.4	--
McRenolds Reservoir		6720	1/14	49	14.8	--	--
Moores Creek Summit		6100	1/18	84	20.9	20.7	--
Mud Creek		7100	1/12	52	15.3	--	--
Rammel Ridge		8240	1/14	90	25.4	--	--
Shanghai Summit		4570	1/20	67	15.7	0.0	--
Sheep Mountain		6570	1/12	35	9.8	0.0	--
Squaw Meadow		5900	1/9	72	21.8	--	--
Tex Creek		6650	1/11	29	6.9	--	--
Twitchell Canyon		6300	1/13	43	11.8	--	--
Willow Flat		6070	1/11	46	11.2	--	--

February 15, 1982

Bogus Basin	6340	2/16	61	18.7	10.0	--
Bogus Basin Road	5540	2/16	30	9.5	0.0	--
Crooked Fork	3610	2/16	43	13.3	4.8	--
Fish Lake Airstrip	5650	2/18	108	34.3	11.6	--
Galena	7440	2/17	75	21.2	11.1	--
Galena Summit	8780	2/16	84	24.4	12.4	--
Hemlock Butte	5810	2/18	134	41.5	14.4	--
Lolo Pass	5240	2/16	82	26.5	10.8	--
Shanghai Summit	4570	2/18	69	22.3	4.1	--

1/ 1963-77, 15 year period. # Not located directly on this drainage. ' Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

SUPPLEMENTAL MEASUREMENTS (Continued)

March 15, 1982

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average 1/	
Above Burke	4100	3/15	56	20.0	8.4	--	
Atlanta Summit	7600	3/16	113	41.7	17.6	--	
Atlanta Townsite	5280	3/16	36	13.6	4.2	--	
Bad Bear	4940	3/15	45	17.1	4.3	--	
Bogus Basin	6340	3/15	70	26.7	10.0	--	
Crooked Fork	3610	3/15	37	13.1	0.0	--	
Elk Butte	5550	3/16	107	34.6	11.7	--	
Fish Lake Airstrip	5650	3/16	117	41.9	17.1	--	
Fourth of July Summit	3200	3/15	19	5.5	--	--	
Galena	7440	3/12	70	23.3	11.9	--	
Galena Summit	8780	3/12	88	28.5	16.8	--	
Hemlock Butte	5810	3/16	151	52.4	18.1	--	
Humboldt Gulch	4250	3/15	47	15.0	--	--	
Idaho City	4000	3/15	16	6.9	--	--	
Jackson Peak	7070	3/16	100	36.9	18.2	--	
Lolo Pass	5240	3/15	90	31.0	12.8	--	
Lookout	5140	3/15	95	35.0	17.2	--	
Lost Lake	6110	3/16	170	55.0	27.2	--	
Moores Creek Summit	6100	3/15	102	40.4	15.1	--	
Pierce Ranger Station	3080	3/16	33	12.1	--	--	
Prairie	4800	3/15	15	6.1	0.0	--	
Savage Pass	6170	3/15	97	33.5	15.6	--	
Shanghai Summit	4570	3/16	76	27.0	4.2	--	
Sherwin	3200	3/15	39	15.0	0.0	--	
Trinity Mountain	7770	3/16	128	52.0	21.3	--	
Vienna Mine	8960	3/16	120	47.6	21.8	--	

April 15, 1982

Atlanta Summit	7600	4/16	141	53.0	21.8	--	
Bad Bear	4940	4/16	45	17.8	0.0	--	
Black Canyon	7960	4/12	126	51.0	0.0	--	
Black Moose	8160	4/12	141	58.2	0.0	--	
Bogus Basin	6340	4/15	84	29.8	0.0	--	
Crooked Fork	3610	4/15	36	13.1	0.0	--	
Elk Butte	5550	4/16	114	38.8	18.2	--	
Fish Lake Airstrip	5650	4/16	134	45.4	23.7	--	
Fourth of July Summit	3200	4/15	7	1.6	--	--	
Galena	7440	4/16	82	29.0	15.3	--	
Galena Summit	8780	4/16	107	38.2	19.7	--	
Giveout	6860	4/15	54	20.5	--	--	
Hemlock Butte	5810	4/16	163	55.4	27.4	--	
Idaho City	4000	4/16	0	0.0	--	--	
Jackson Peak	7070	4/16	115	43.6	23.1	--	

(b)1963-77, 15 year period. #Not located directly on this drainage. 1/ Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average [1]

SUPPLEMENTAL MEASUREMENTS (Continued)

Latham Springs	7630	4/12	111	44.2	--	--
Little Beaver	6970	4/15	59	23.8	--	--
Lolo Pass	5240	4/15	93	35.4	17.9	--
Lookout	5140	4/15	113	41.4	21.2	--
Lost Lake	6110	4/16	194	64.4	37.5	--
Lower Home Canyon	7640	4/15	57	21.4	--	--
Lucky Dog	6860	4/12	96	38.4	--	--
Montpelier Creek	6540	4/15	28	10.8	--	--
Moores Creek Summit	6100	4/16	119	44.0	20.2	--
Prairie	4800	4/15	3	1.2	0.0	--
Shanghai Summit	4570	4/16	88	30.2	8.3	--
Slug Creek Divide	7230	4/15	67	25.7	--	--
Trinity Mountain	7770	4/15	158	63.4	27.7	--
Vienna Mine	8960	4/16	148	59.9	27.4	--
Upper Home Canyon	8560	4/15	95	39.0	--	--
Whiskey Flat	6960	4/15	40	14.7	--	--

May 15, 1982

Atlanta Summit	7600	5/13	106	48.5	--	--
Atlanta Townsite	5280	5/13	0	0.0	--	--
Bogus Basin	6340	5/14	48	23.0	0.0	--
Crater Meadows	5960	5/14	103	48.2	19.5	--
Elk Butte	5550	5/14	60	24.2	0.0	--
Galena	7440	5/13	40	16.2	0.0	--
Galena Summit	8780	5/13	76	33.2	13.4	--
Hemlock Butte	5810	5/14	118	49.4	16.3	--
Jackson Peak	7070	5/13	82	37.1	--	--
Lookout	5140	5/14	72	32.2	8.6	--
Lost Lake	6110	5/14	146	61.8	26.5	--
Moores Creek Summit	6100	5/14	82	37.8	2.6	--
Shanghai Summit	4570	5/14	38	17.2	0.0	--
Trinity Mountain	7770	5/13	114	57.2	18.3	--
Vienna Mine	8960	5/13	116	56.4	--	--

DELAYED MEASUREMENTS - 1982

January 1, 1982

Buck Meadows	5650	1/3	60	16.9	--	14.9*
Packsaddle Springs	8200	12/28	51	14.3	--	--
Soldier Ranger Station	5740	1/6	45	8.3	5.3	4.9*

February 1, 1982

Bruno	7920	2/2	63	17.9	--	--
Buck Meadows	5650	2/5	88	27.7	--	20.2*

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent*

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [1]

DELAYED MEASUREMENTS - 1982 (Continued)

March 1, 1982						
Buck Meadows	5650	3/5	89	33.1	--	25.8*
May 1, 1982						
Bruno	7920	5/3	60	25.9	--	--
Kruze Meadow	4780	5/3	27	12.3	--	--

CORRECTIONS TO PREVIOUSLY PUBLISHED 1982 DATA

February 1, 1982						
Mud Creek	7100	2/1	59	18.8	13.7	--
March 1, 1982						
Cub River	5450	2/23	23	8.1	4.9	8.4
April 1, 1982						
Brockman Station	6430	3/29	35	8.5	0.0	--
Lava Creek (Hell Creek)	7350	3/29	66	23.9	8.8	--
McRenolds Reservoir	6720	3/31	66	22.6	11.3	--
Rammel Ridge	8240	3/31	132	51.3	22.3	--
Sheep Mountain	6570	3/29	52	18.5	6.2	13.9*
Tex Creek	6650	3/29	43	13.8	7.6	9.7*

*(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Room 345
304 N. 8th St.
Boise, Idaho 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S.MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

551.573
Un36wi

Water Supply Outlook For Idaho

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES
NOAA, NATIONAL WEATHER SERVICE

AS OF

Jan. 1, 1983

THE LIBRARY OF THE
FEB 3 1983
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent af the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt seasan will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mauntain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the some location near the same dates each year.

Snow surveys are made monthly ar semi-manthly from January 1 through June 1 in most states. There are about 1900 snow caurses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed dato on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at volley elevations ore also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture dota for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic dota summary and published about October 1 af each year.

COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Canservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservotion Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following stotes:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizono 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevoda 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South Stote St., Salt Lake City, Utah 84138
Woshington	360 U. S. Court House, Spokone, Woshington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

PETER C. MEYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
PETER L. PALMER, Hydrologist
PAUL K. BROWN, JR., Electronics Technician
KATHERN G. WOOTTON, Statistical Assistant
SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR JANUARY 1, 1983

In general, the January 1, 1983 snow surveys indicate an above to well above snowpack throughout the State. Snowpack conditions range from a low of 92 percent of normal on the Clearwater River in Northern Idaho to a high of 217 percent on the Jordan Creek drainage in the southwestern part of the State. Low elevation snowpacks are extremely high in the southern half of the State with many low elevation sites reporting snow water equivalents in excess of the average March 1 readings and establishing a new record high for January 1.

Precipitation for December was 140 percent of normal and the State is at 135 percent for the water year. The range for December was from 79 percent at Grangeville to 205 percent at Ketchum. Temperatures, which averaged near normal, allowed much of the precipitation to remain as snow.

Most mountain watersheds received above average moisture prior to snow accumulation in October and soil moisture conditions are near or above normal throughout the State.

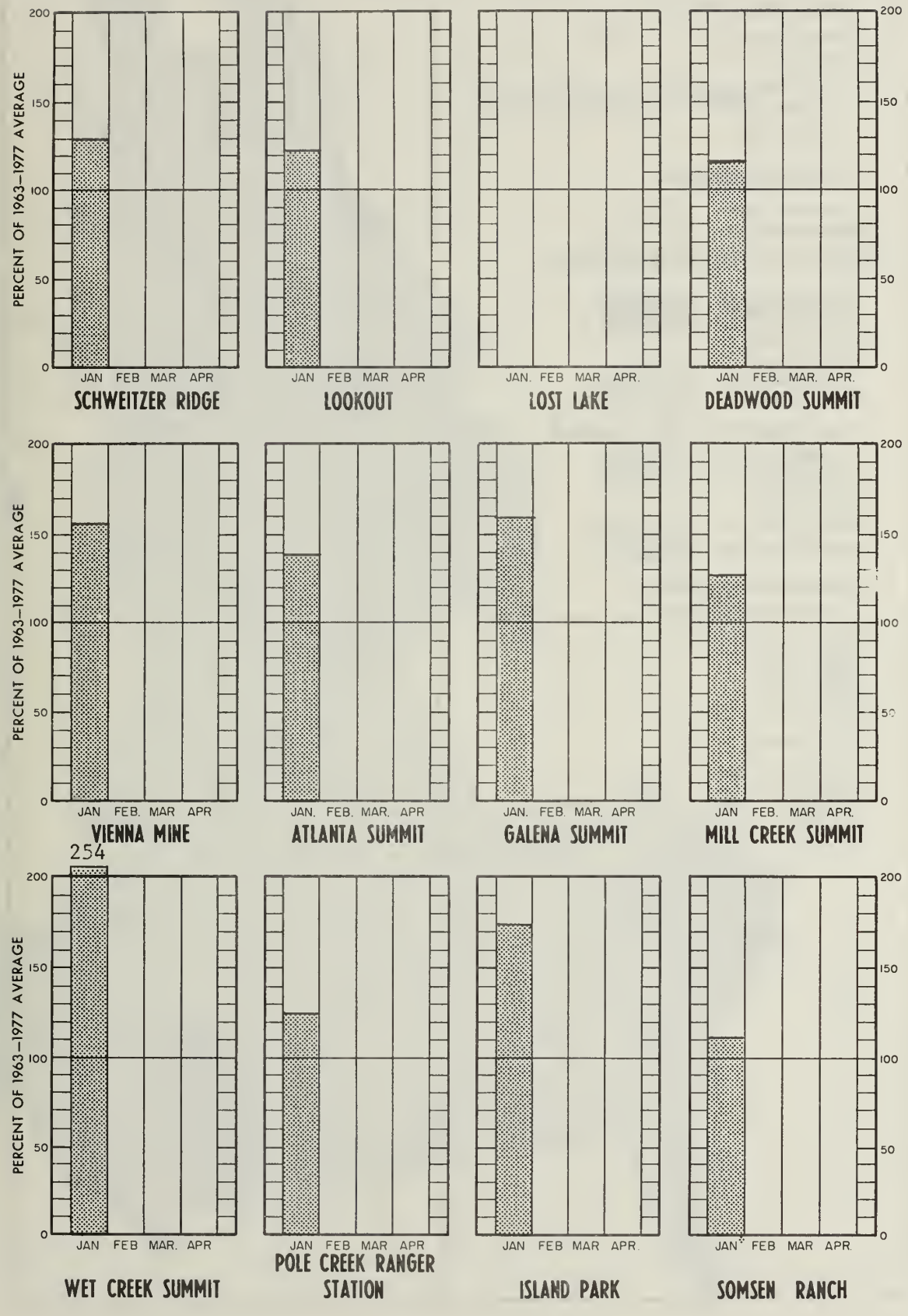
Reservoir carry over storage is near normal to well above normal in most reservoirs, ranging from 84 percent of average in Jackson Lake to 164 percent in Little Wood Reservoir. The exceptions are Arrowrock and Lucky Peak reservoirs on the Boise drainage which are 55 percent and 399 percent of normal respectively.

Streamflow forecasts range from 93 percent of normal on Clarks Fork at Whitehorse Rapids to 150 percent inflow to Owyhee Lake. Most other forecasts range from 100 percent to 124 percent of normal.

If the remainder of the season remains near normal, water supplies should be adequate throughout Idaho.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

JANUARY 1, 1983

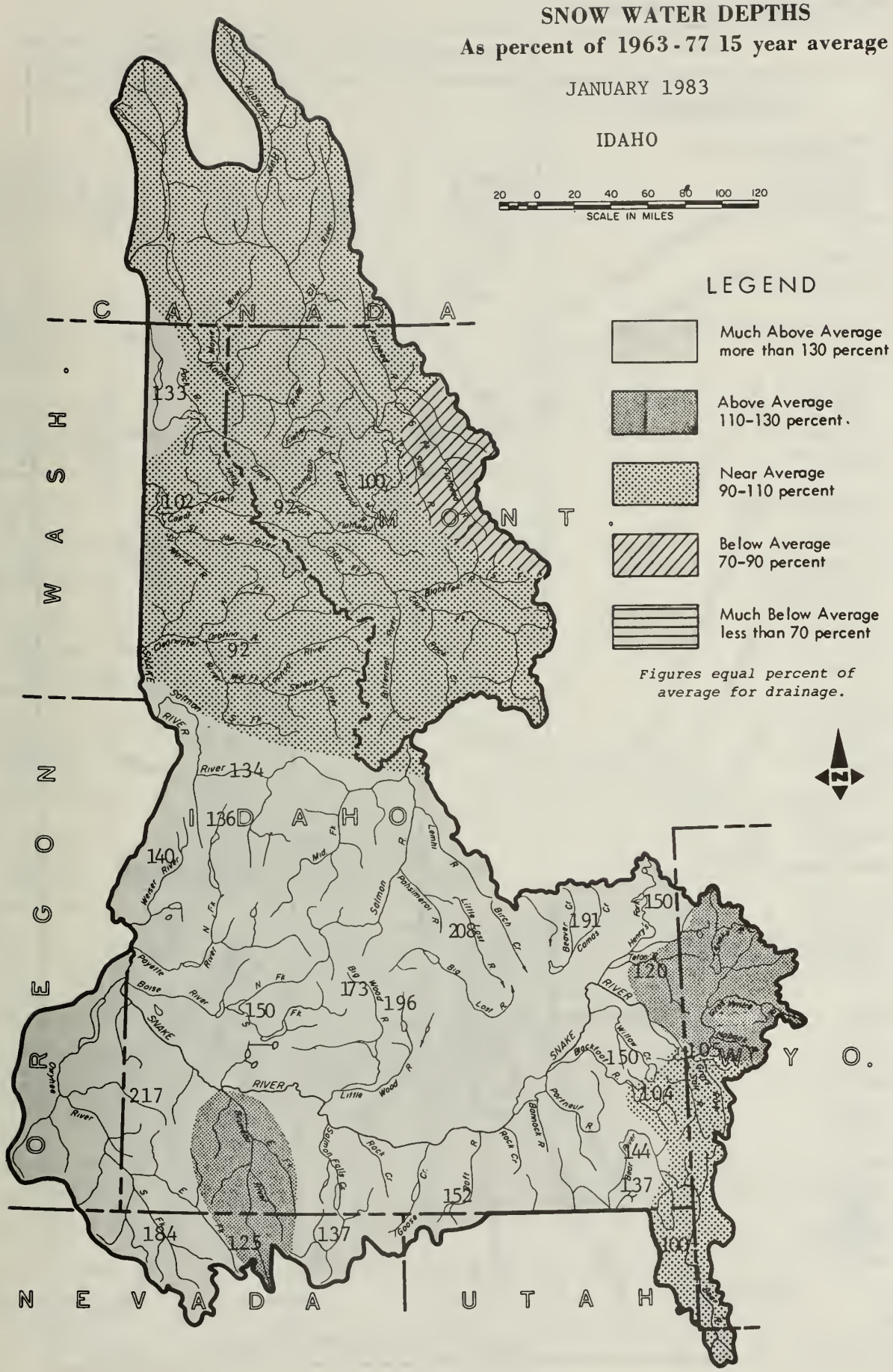


COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN			
Kootenai River	20	112	83
Pend Oreille River	72	106	95
Clark Fork River	49	94	92
Flathead River	23	127	100
Priest River	4	152	133
Spokane River	3	128	102
LOWER SNAKE RIVER BASIN			
Clearwater River	4 - 6	77	92
Salmon River	11 - 13	105	134
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5 - 6	119	208
Big Lost River	3	98	-
Little Wood River	3 - 4	147	196
Big Wood River	7 - 8	94	173
Boise River	10	102	150
Payette River	9 - 14	116	136
Weiser River	1	199	140
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	82	152
Salmon Falls Creek	4 - 5	104	137
Bruneau River	1	106	125
Owyhee River	6	128	184
Jordan Creek	1	113	217
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	11	-	105
Camas-Beaver Creeks	2	196	191
Henrys Fork River	7	120	150
Teton River	4	107	120
Willow Creek	1	-	150
Blackfoot River	2	-	104
GREAT BASIN			
Bear River - Upper	2	54	100
Bear River - Lower	14	69	121
Montpelier Creek	2 - 4	69	124
Mink Creek	1	106	144
Cub River	2	-	137

SNOW WATER DEPTHS
As percent of 1963-77 15 year average

JANUARY 1983



RESERVOIR STORAGE (1,000 Ac. Ft.)

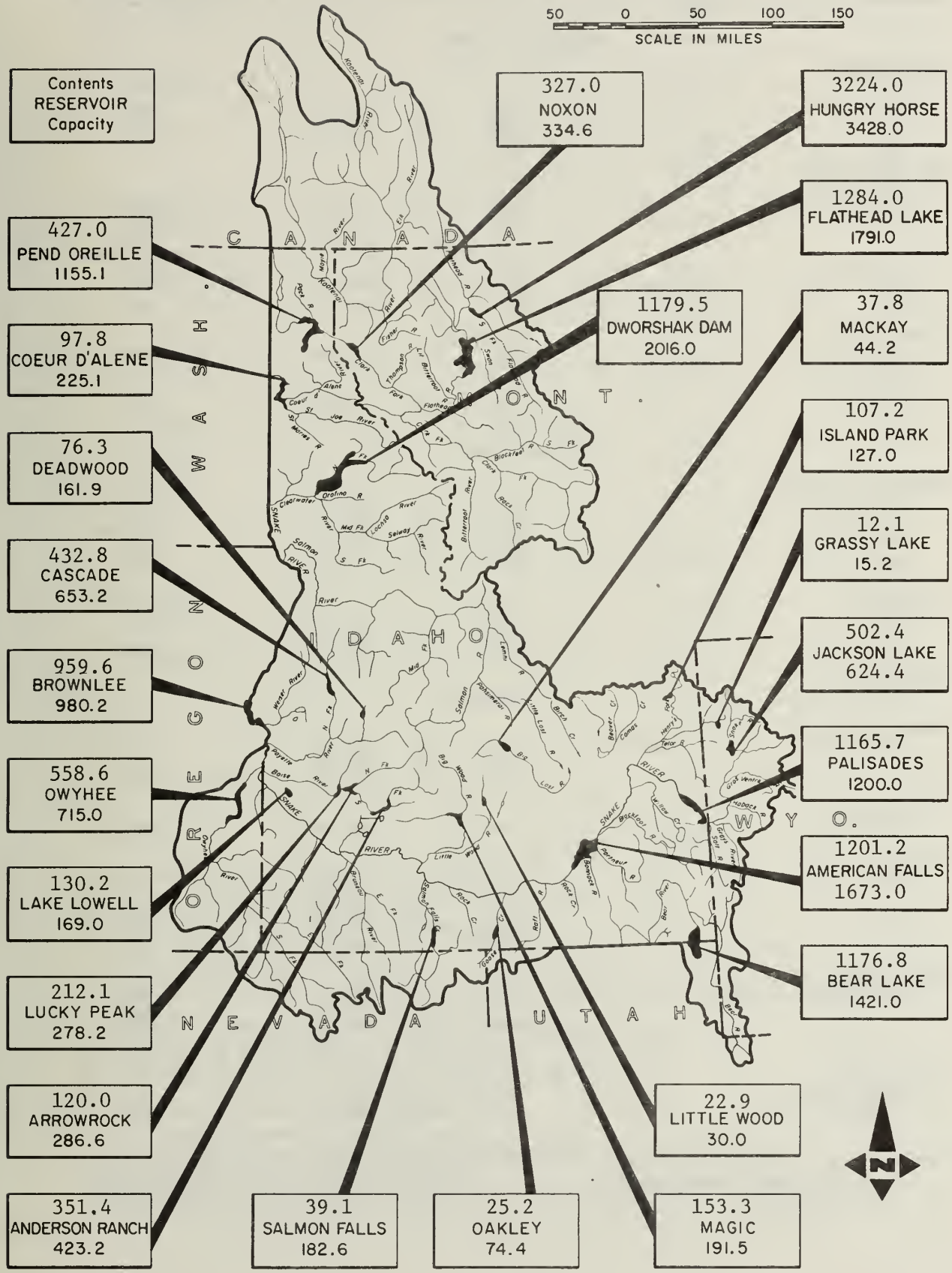
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	3224.0	2603.0	2624.0
Flathead	1791.0	1284.0	1171.0	1428.0
Pend Oreille	1155.1	427.0	133.3	331.1
Noxon	334.6	327.0	322.8	318.7
Spokane				
Coeur d'Alene	225.1	97.8	82.5	129.9
SNAKE BASIN				
Snake				
Jackson Lake	624.4	502.4	511.9	599.7
Palisades	1200.0	1165.7	555.9	897.8
American Falls	1673.0	1201.2	795.1	1019.3
Island Park	127.0	107.2	78.9	92.4
Grassy Lake	15.2	12.1	Est. 12.3	10.1
Brownlee	980.2	959.6	744.0	808.1
Goose-Trapper Creeks				
Oakley	74.4	25.2	8.6	23.5
Salmon Falls Creek				
Salmon Falls	182.6	39.1	14.2	45.7
Big Lost				
Mackay	44.2	37.8	--	26.7
Big Wood				
Magic	191.5	153.3	60.0	98.4
Little Wood				
Little Wood	30.0	22.9	10.5	14.0
Fish Creek				
Carey Valley	14.4	7.6	2.6	--
Boise				
Anderson Ranch	423.2	351.4	334.7	301.1
Arrowrock	286.6	120.0	192.7	216.8
Lucky Peak	278.2	212.1	19.8	53.1
Lake Lowell (Deer Flat)	169.0	130.2	103.4	116.1
Owyhee				
Owyhee	715.0	558.6	381.7	405.5
Payette				
Cascade	653.2	432.8	443.8	379.0
Deadwood	161.9	76.3	79.7	74.3
Weiser				
Mann Creek	11.1	6.9	5.6	--
Clearwater				
Dworshak	2016.0	1179.5	1203.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1176.8	882.5	971.8

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1983



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8760	99	Apr-Sep	--	8858
		7620	99	Apr-Jul		7708
		6090	99	Apr-Jun		6114
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	12900	94	Apr-Sep	--	13781
		11700	93	Apr-Jul	--	12519
		9940	93	Apr-Jun	--	10633
Priest River						
Priest River 1/	(at)	932	104	Apr-Sep	--	--
		876	104	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	2940	101	Apr-Sep	--	2910
St. Joe River						
Calder	(at)	1320	101	Apr-Sep	--	1309
		1250	107	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	940	104	Apr-Sep	--	903
Palisades Inflow 3/		4035	104	Apr-Sep	--	3863
Heise 4/	(nr)	4300	101	Apr-Sep	--	4247
		3614	102	Apr-Jul	--	3527
Blackfoot 5/	(nr)	4760	104	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	810	110	Apr-Sep	--	737
		612	112	Apr-Jul	--	547
Rexburg 7/	(nr)	1680	110	Apr-Sep	--	1534
Teton River						
South Leigh Creek	(ab)	160	107	Apr-Jul	--	150
Salmon Falls Creek						
San Jacinto	(nr)	113	119	Mar-Sep	--	95
		108	120	Mar Jul	--	90
		102	120	Mar-Jun	--	85
Bruneau River						
Hot Springs	(nr)	310	124	Mar-Sep	--	251
Little Lost River						
Howe	(nr)	52.5	117	Apr-Sep	--	45
	(bl)	48	117	Apr-Sep	--	41
		31	119	Apr-Jun	--	26
Wet Creek	(bl)	47.5	116	Apr-Sep	--	41
		38.5	116	Apr-Jul	--	33
Big Lost River						
Howell Ranch	(at)	255	113	Apr-Sep	--	225
		226	114	Apr-Jul	--	199
		178	116	Apr-Jun	--	154
Mackay 8/	(nr)	231	113	Apr-Sep	--	204
Big Wood River						
Magic Reservoir Inflow 9/		445	140	Apr-Sep	--	319
		465	140	Mar-Jul	--	332

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Little Wood River						
Carey 10/	(nr)	150	140	Apr-Sep	--	107
		138	140	Apr-Jul	--	98.5
		123	141	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	874	119	Apr-Sep	--	733
		806	119	Apr-Jul	--	676
Boise 11/	(nr)	2000	121	Apr-Sep	--	1656
		1850	121	Apr-Jul	--	1536
		1645	121	Apr-Jun	--	1360
South Fork						
Anderson Dam 12/	(at)	819	132	Apr-Sep	--	622
Owyhee River						
Gold Cr., Nv 13/	(nr)	30	130	Apr-Jul	--	23
Owyhee, Nv 13/	(nr)	110	138	Apr-Jul	--	80
Lake Owyhee		558	142	Apr-Sep	--	392
net inflow 14/		867	150	Feb-Jul	--	578
Payette River						
Horseshoe Bend 15/	(nr)	2200	118	Apr-Sep	--	1860
		2040	119	Apr-Jul	--	1721
North Fork						
Cascade 16/	(at)	643	114	Apr-Sep	--	564
Banks 16/	(nr)	835	115	Apr-Sep	--	726
South Fork						
Lowman	(nr)	516	113	Apr-Jul	--	458
Weiser River						
Weiser	(nr)	527	119	Apr-Sep	--	442
		664	119	Mar-Sep	--	558
Salmon River						
Whitebird	(at)	7500	104	Apr-Sep	--	7196
Clearwater River						
Spalding	(at)	8310	96	Apr-Sep	--	8672
GREAT BASIN						
BEAR RIVER						
Harer	(at)	332	100	Apr-Sep	--	332
Montpelier Creek						
Montpelier	(nr)	18.3	132	Apr-Sep	--	13.9
Cub River						
Preston	(nr)	58	116	Apr-Sep	--	50
		55	117	Apr-Jul	--	47

1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake.
3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades.
5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
8/ Observed flow corrected for storage in Mackay Reservoir.
9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
10/ Corrected for storage in Little Wood Reservoir.
11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
12/ Corrected for storage in Anderson Ranch Reservoir.
13/ Corrected for storage in Wildhorse Reservoir.
14/ From Bureau of Reclamation records of inflow.
15/ Corrected for storage in Cascade and Deadwood Reservoirs.
16/ Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions. *+1963-1977 period.*

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME & DRAINAGE		Elevation	Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content (inches) Last Year	Average
Above Burke	Coeur d'Alene	4100	12/29	35	7.8	5.2	9.3*
Antelope Ridge	Owyhee	6180	12/28	18	4.2	4.3	--
Aspen Grove	Willow	6500	12/29	30	7.1	--	--
Atlanta Summit	Boise	7600	12/28	79	21.2	23.5	15.2*
Atlanta Townsite	Boise	5370	12/28	32	7.8	--	--
Bad Bear	Boise	4940	12/29	31	7.1	5.4	5.2*
Banner Summit	Payette	7040	12/28	64	16.9	--	--
Bear Basin	Little Salmon	5350	12/28	52	12.4	--	--
Bear Canyon	Big Lost	7900	12/28	53	12.6	12.7	--
Bear Saddle	Mann Creek	6180	1/1	61	18.4	--	--
Bennett Mountain	Canyon Creek	6560	12/31	45	12.4	--	--
Benton Meadow	Priest	2370	12/29	17	3.9	1.2	2.9
Benton Spring	Priest	4920	12/29	40	10.4	5.9	8.3
Big Creek Summit	Salmon	6580	12/26	83	19.9	18.8	14.7
Big Springs	Henrys Fork	6400	12/27	50	11.7	9.4	7.8
Birch Creek	Willow	6800	12/29	23	5.1	--	--
Black Bear (Mt)	Madison	7950	1/4	81	25.3	21.8	17.3
Blue Ridge	Blackfoot	6780	12/29	43	11.7	--	--
Bogus Basin	Payette	6340	12/29	57	15.8	8.5	9.6
Bogus Basin Road	Boise	5540	12/29	26	6.3	2.7	2.9*
Bone	Willow	6200	12/29	22	4.5	--	3.0*
Boulder Creek	Weiser	5440	12/29	53	14.3	7.2	10.2
Breezy Saddle	Clearwater	5010			Delayed	11.0	--
Brockman Station	Willow	6430	12/29	26	5.8	--	--
Brundage Mountain	Little Salmon	7560	12/29	77	24.5	25.0	18.9*
Bruno Creek	Squaw Creek	7920	12/30	44	10.0	--	--
Camp Creek	Beaver	6580	1/3	36	9.0	3.0	4.8
Cayuse Airstrip	Clearwater	3500			Delayed	3.8	5.1*
Copper Basin	Big Lost	7640	12/28	28	7.5	4.4	--
Couch Summit	Boise	6840	12/31	53	14.3	--	7.2*
Cozy Cove	Deadwood	5380	12/28	39	10.5	10.6	7.0
Crater Meadows	Clearwater	5960			Delayed	17.9	18.3*
Crawford Ranger Sta.	Payette	4860	12/26	27	6.7	--	3.0*
Crooked Fork	Lochsa	3610	12/30	20	4.0	5.6	5.1*
Cub River Ranger Sta.	Cub	5450	12/27	19	5.0	--	3.4*
Darby Canyon (Wy)	Teton	8250	12/29	44	11.1	--	9.5*
Deadline	Salmon Falls	7400	12/30	44	13.8	13.1	8.7*
Deadline South	Salmon Falls	7450	12/30	55	16.8	10.7	--
Deadwood Airstrip	Deadwood	5360	12/28	40	11.1	9.5	6.3*
Deadwood Summit	Deadwood	6860	12/28	93	26.1	--	22.7*
Dollarhide Summit	Big Wood	8420	12/28	66	16.1	19.6	12.4*
Elk Butte	Clearwater	5550			Delayed	13.4	--
Emigrant Summit	Bear	7390	1/3	45	13.5	12.8	9.4*
Fairview Guard Sta.	Little Lost	6750	12/31	18	4.6	3.4	1.8*
Fish Lake Airstrip	Lochsa	5650			Delayed	17.0	16.1*
Forty-nine Meadows	Clearwater	4830			Delayed	9.8	--
Freds Mountain (Wy)	Teton	8150	12/30	46	11.8	13.8	8.6*
Galena	Big Wood	7440	12/29	54	12.7	12.7	7.8
Galena (new course)	Big Wood	7470	12/29	55	12.5	--	--
Galena Summit	Big Wood	8780	12/29	58	16.5	15.2	10.4
Garfield Ranger Sta.	Little Wood	6560	12/28	41	9.2	4.4	4.1*
Gibbons Pass (Mt)	Bitterroot	7100	12/29	44	10.6	11.2	9.1
Giveout	Montpelier	6860	12/29	25	5.4	7.6	4.8
Goat Creek (Nv)	Salmon Falls	8880	12/29	36	9.3	10.2	7.8*
Graham Guard Sta.	Boise	5690	12/28	38	10.7	--	--
Graham Ranch	Big Wood	6270	12/29	46	10.7	7.1	5.6
Grassy Lake (Wy)	Henrys Fork	7265	12/28	62	16.1	18.0	14.4
Heart Lake Trail (Mt)	Clark Fork	4800	12/30	31	7.6	--	6.6
Hemlock Butte	Clearwater	5810			Delayed	21.4	20.8*
Hilts Creek	Little Lost	8000	12/30	30	7.0	8.2	--
Hoodoo Basin (Mt)	Clark Fork	6000	12/30	70	21.2	--	22.3*
Hoodoo Creek (Mt)	Clark Fork	5900	12/30	66	18.8	--	18.8*
Howell Canyon	Marsh Creek	7980	12/31	56	15.9	19.5	10.5
Humboldt Gulch	Coeur d'Alene	4250	12/28	32	6.0	4.4	--
Hyndman Creek	Big Wood	7440	12/28	43	10.4	--	--
Idaho City Townsite	Boise	4000	12/29	17	3.1	--	--
Indian Meadows	Teton	8240	12/29	74	21.7	--	--
Island Park	Henrys Fork	6290	12/27	48	10.8	7.5	6.2
Jackpine Creek (Wy)	Teton	7350	12/29	46	12.4	--	--
Jackson Peak	Boise	7070	12/28	66	18.1	18.7	15.1*
Kilgore	Camas Creek	6320	12/30	35	8.8	6.1	4.5
Kruze Meadows	Clearwater	4780	1/3	20	5.9	3.1	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME & DRAINAGE		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Lake Fork	Payette	5290	1/2	35	9.0	6.2	6.5*
Lakeview Ridge (Mt)	Beaverhead	7400	12/29	37	9.2	3.4	5.0
Langford Flat Creek	Salmon Falls	5980	12/30	18	3.9	3.3	--
Lava Creek	Willow	7350	12/29	38	9.0	--	--
Little Beaver	Montpelier	6970	12/29	28	7.1	--	5.7
Little Camas Flat	Boise	4940	12/31	23	5.8	--	--
Lolo Pass	Lochsa	5240	12/30	36	8.8	12.0	11.5*
Lookout	Coeur d'Alene	5140	12/30	60	16.8	12.2	13.7
Lost Garfield	Little Lost	6600	12/31	16	4.2	3.4	1.6*
Lost Horse (Mt)	Bitterroot	5940	12/28	44	10.4	--	13.8
Lost-Wood Divide	Big Lost	7900	12/28	56	14.2	16.8	--
Magic Mountain	Rock Creek	6880	12/30	40	10.8	11.0	7.5*
Mascot Mine	Big Wood	7780	12/28	42	10.4	11.2	--
McRenolds Reservoir	Teton	6720	12/29	43	10.3	--	--
Mill Creek Summit	Salmon	8800	12/30	49	13.5	14.7	10.6*
Montpelier Creek	Montpelier	6540	12/29	18	3.9	5.9	3.4
Moonshine	Little Lost	7440	12/31	26	6.2	5.6	4.3*
Moores Creek Summit	Boise	6100	12/29	68	18.3	15.6	13.0
Moose Creek	N.F. Salmon	6200	12/30	37	8.8	10.6	6.9*
Morgan Creek	Salmon	7600	12/28	36	8.4	7.7	5.9*
Mount Baldy	Big Wood	8920	12/30	62	15.5	14.8	8.7*
Mud Creek	Willow	7100	12/29	49	13.4	--	--
Mud Flat	Owyhee	5730	12/28	19	4.4	5.2	--
Muldoon	Little Wood	6320	12/28	34	8.2	2.7	3.2*
Packsaddle Spring	Teton	8200	12/29	59	17.6	--	--
Pierce Ranger Sta.	Clearwater	3080	12/27	14	3.4	4.7	4.2
Pine Creek Pass	Teton	6810	12/30	35	7.4	8.8	6.9
Pole Creek Ranger Sta.	Jarbidge	8360	12/29	38	11.4	10.8	9.1*
Prairie	Boise	4800	1/5	19	5.1	--	--
Road Creek	Boise	5380	12/28	26	6.2	--	5.6*
Rock Flat Summit	Payette	5310	12/28	49	12.3	6.8	7.1
Saddle Mountain (Mt)	Bitterroot	7940	12/29	46	11.2	12.4	11.1
Savage Pass	Lochsa	6170	12/30	40	9.8	11.6	10.2*
Sawmill Canyon	Little Lost	7000	12/31	24	5.8	5.2	3.3*
Sawtell Mountain	Henrys Fork	8720	12/27	80	23.1	20.2	14.1*
Schweitzer Basin	Pend Oreille	6090	12/28	85	24.1	--	--
Schweitzer Bowl	Pend Oreille	4800	12/28	65	18.6	13.8	13.0*
Schweitzer Ridge	Pend Oreille	6200	12/28	79	26.3	18.0	20.3*
Secesh Summit	Payette	6520	1/1	68	20.6	17.9	16.6*
Shanghai Summit	Clearwater	4570			Delayed	10.3	9.9*
Sheep Mountain	Willow	6570	12/29	34	7.9	--	--
Sherwin	St. Maries	3200	12/29	20	4.4	5.2	5.5*
Shoshone Basin	Salmon Falls	5810	12/30	19	4.6	3.0	--
Slug Creek Divide	Blackfoot	7230	12/29	29	7.4	--	7.5*
Soldier Meadow	Clearwater	4650			Not Measured	--	--
Soldier Ranger Sta.	Big Wood	5740	12/31	50	12.8	8.3	4.9*
Somsen Ranch	Willow Creek	6840	12/28	30	6.3	--	5.7*
South Mountain	Jordan-Owyhee	6500	12/29	38	11.3	10.0	5.2
Squaw Flat	Weiser	6240	1/2	58	17.5	--	--
Squaw Meadow	Payette	5900	1/1	68	20.9	--	16.8*
State Line	Teton	6660	12/30	32	6.9	6.1	5.9
Stickney Mill	Big Lost	7430	12/28	33	7.2	5.3	--
Swede Peak	Little Wood	7640	12/28	54	13.4	9.8	8.4*
Targhee Pass	Henrys Fork	6980	12/27	40	9.0	6.0	6.2*
Tex Creek	Willow	6650	12/29	27	5.7	--	--
Trinity Mountain	Boise	7770	12/28	88	26.6	31.6	19.3
Twelve Mile Creek (Mt)	Bitterroot	5600	12/28	34	7.9	10.7	8.4
Twin Lakes (Mt)	Bitterroot	6510	12/28	54	13.2	--	18.2
Twitchell Canyon	Blackfoot	6300	1/4	39	10.1	--	--
Valley View	Henrys Fork	6680	12/27	44	10.1	6.1	6.4
Vienna Mine	Salmon	8960	12/28	70	19.2	24.9	12.3
Webb Creek	Clearwater	4720	1/3	19	5.1	3.3	--
West Branch	Weiser	5560	12/29	58	14.8	8.2	--
Wet Creek Summit	Little Lost	7680	12/30	39	11.2	7.0	4.4*
Whiskey Flat	Montpelier	6960	12/29	22	5.2	--	3.6
White Elephant	Henrys Fork	7710	12/27	56	15.3	13.1	8.9*
Willow Flat	Cub	6070	12/27	31	7.7	--	5.9*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOTEL DATA 1/

Data Site	Date	Pillow Snow Water Equivalent (Inches)	Precipitation Water Year (Accumulative) (Inches)
Atlanta Summit	1/1	19.6	22.6
Banner Summit	1/1	15.2	18.5
Bear Basin	1/1	13.0	16.1
Bear Canyon	1/1	11.1	17.4
Bear Mountain	1/1	29.8	36.8
Bear Saddle	1/1	18.1	17.2
Bennett Mountain	1/1	13.5	14.6
Big Creek Summit	1/1	17.0	21.4
Cozy Cove	1/1	11.2	14.4
Crab Creek	1/1	12.4	13.4
Deadwood Summit	1/1	26.7	26.6
Dollarhide Summit	1/1	16.9	19.0
Emigrant Summit	1/1	14.8	13.8
Franklin Basin	1/1	11.3	13.5
Galena	1/1	11.6	13.1
Galena Summit	1/1	11.0	13.8
Garfield Ranger Sta.	1/1	9.7	11.7
Giveout	1/1	5.0	5.9
Graham Guard Sta.	1/1	10.3	14.2
Hilts Creek	1/1	10.7	10.4
Howell Canyon	1/1	13.5	16.2
Humboldt Gulch	1/1	5.3	20.2
Hyndman	1/1	8.2	11.7
Island Park	1/1	10.0	13.0
Jackson Peak	1/1	17.1	20.7
Lookout	1/1	15.8	20.2
Lost Lake	1/1	25.8	26.3
Lost-Wood Divide	1/1	12.8	17.4
Magic Mountain	1/1	10.4	12.6
Meadow Lake	1/1	10.4	10.7
Mill Creek Summit	1/1	11.7	12.0
Moonshine	1/1	6.5	8.4
Moores Creek Summit	1/1	19.6	19.1
Moose Creek	1/1	8.0	10.3
Morgan Creek	1/1	8.0	10.0
Mosquito Ridge	1/1	19.2	24.2
Mountain Meadows	1/1	7.1	10.8
Mud Flat	1/1	3.2	6.9
Oxford Spring	1/1	5.2	10.7
Prairie	1/1	--	10.1
Schweitzer Basin	1/1	30.8	23.1
Secesh Summit	1/1	20.4	22.1
Sheep Mountain	1/1	--	9.9
Sherwin	1/1	4.4	14.3
Slug Creek Divide	1/1	7.9	10.2
Somsen Ranch	1/1	5.5	7.7
South Mountain	1/1	14.0	13.6
Squaw Flat	1/1	14.9	18.5

Data Site	Date	Pillow Snow Water Equivalent (Inches)	Precipitation Water Year (Accumulative) (Inches)
Stickney Mill	1/1	6.6	8.2
Sunset	1/1	15.6	18.0
Swede Peak	1/1	12.8	14.4
Trinity Mountain	1/1	24.5	28.0
Vienna Mine	1/1	19.6	20.7
West Branch	1/1	15.4	17.6
White Elephant	1/1	17.0	20.0
Wildhorse Divide	1/1	6.8	13.5

1/ The above are data readings as reported by the automated Snotel system on January 1, 1983. Pillow readings indicate the amount of snow water equivalent in the snowpack as being reported on the pillows. The pillows are generally located adjacent to or in close proximity of the corresponding manually read snow course and will generally correspond well to the manual course. Precipitation readings are accumulative precipitation since October 1, 1982 (beginning of the water year) as collected in the 12-inch snotel precipitation gage.

Questions and comments concerning the data may be directed to the State Soil Conservation Service Office, Snow Survey Unit, Rm. 345, 304 N. 8th, Boise, Idaho 83702.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Room 345
304 N. 8th St.
Boise, Idaho 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

551.513
Un3Gwi

Water Supply Outlook For Idaho

THE LIBRARY OF THE
FEB 26 1983
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES
NOAA, NATIONAL WEATHER SERVICE

AS OF
Feb. 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

PETER C. MEYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
PETER L. PALMER, Hydrologist
PAUL K. BROWN, JR., Electronics Technician
KATHERN G. WOOTTON, Statistical Assistant
SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR FEBRUARY 1, 1983

Snowpack conditions deteriorated significantly during January as a result of mild temperatures and below normal snowfall. Currently, snowpack conditions range from a low of 75 percent of average on the Clearwater drainage in Northern Idaho to a high of 155 percent of average on the Jordan Creek drainage in the southwestern part of the State with most basins ranging from 85 percent to 120 percent of normal. The extremely high snowpack present near the first of January in the lower elevations across southern Idaho has dissipated significantly also with some lower elevation sites showing a net decrease in snow water from January 1 to February 1.

After four months of above normal precipitation, January precipitation was below normal. The numerous devastating storms which pounded California continued to the east and missed Idaho. In Idaho only 80 percent of normal precipitation fell and the range was from 121 percent at Porthill to 40 percent at Grace. The water year now stands at 119 percent of average. The same weather pattern which kept Idaho dry also kept it warm. In Northern Idaho, temperatures averaged 10° F. above normal while in the south it varied from 4° F. to 8° F. above normal.

Soil moisture conditions remain near or above normal throughout the State. Soils under the snowpack are unfrozen.

Reservoir carryover storages continue to be near normal to well above normal in most reservoirs, ranging from 81 percent of normal in Jackson Lake to 159 percent in Magic Reservoir. The exceptions are Arrowrock and Lucky Peak reservoirs on the Boise drainage which are 36 percent and 224 percent of average respectively.

Streamflow forecasts range from a low of 85 percent of average on the Clearwater at Spalding to a high of 135 percent for the net inflow to Lake Owyhee. Most other forecasts range from 95 percent to 120 percent of normal.

Although snowpack conditions deteriorated in January, water supplies should remain adequate unless the below normal precipitation trend continues through February and March.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

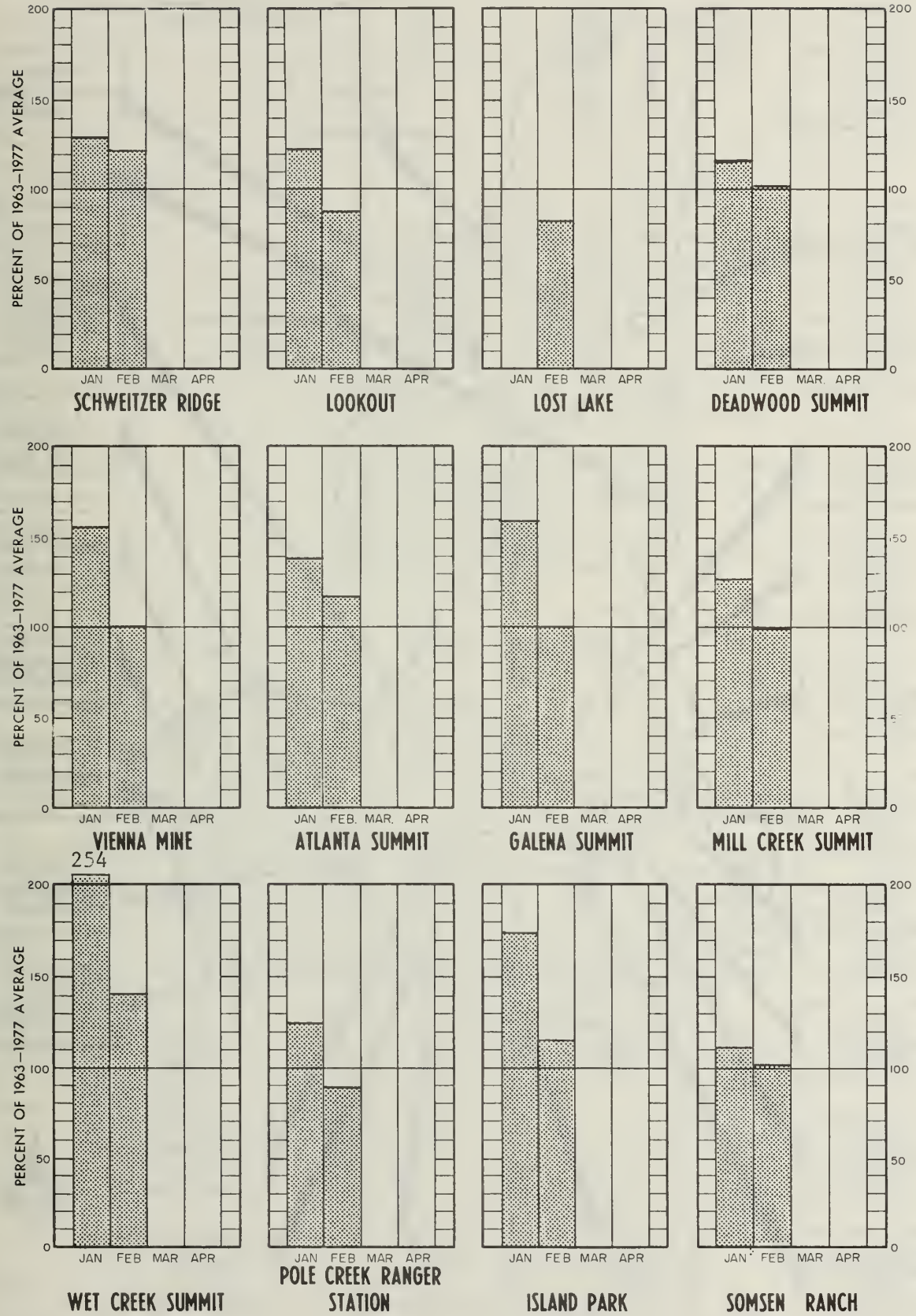
DRAINAGE DIVISIONS	Winter January 1983		Fall - Winter Oct. 1982 - Jan. 1983	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	2.98	- .50	10.63	- 1.17
Flathead	2.03	- .82	7.63	- 1.58
Clark Fork	1.46	- .73	5.57	- 1.23
Pend Oreille-Spokane	3.72	- .70	14.28	- .26
Upper Snake	1.67	- .96	8.88	+ .74
Snake River Plain	.77	- .46	4.46	+ .40
Salmon-Payette-Boise	2.10	- 1.20	10.93	+ 1.28
Clearwater	3.18	- 1.56	11.92	- 2.96
Owyhee-Malheur	1.39	- .09	6.02	+ 1.31

1/ Preliminary analysis and data by the National Weather Service and Meteorlogical Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

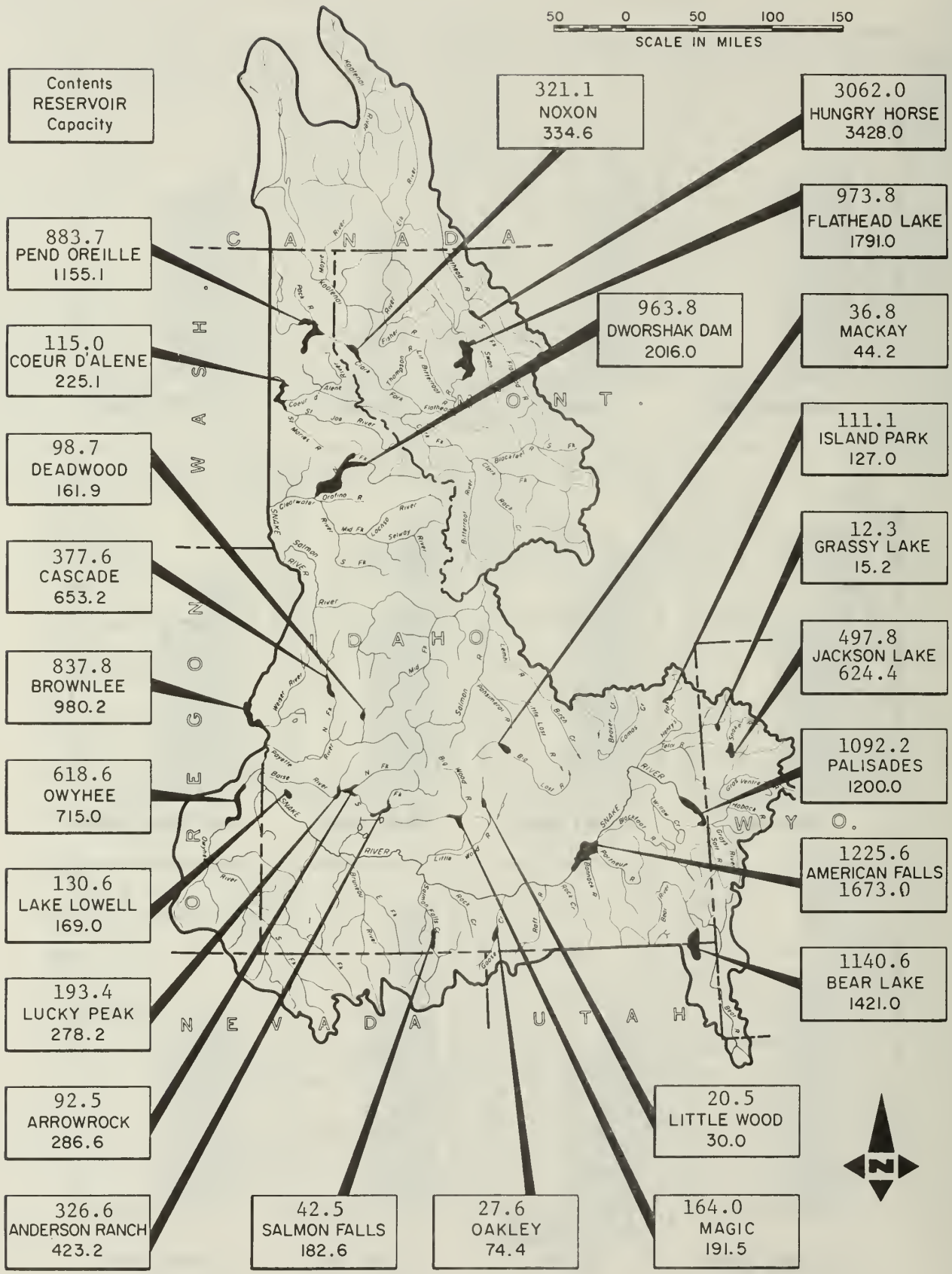
FEBRUARY 1, 1983



RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1983



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	3062.0	2381.0	2341.0
Flathead	1791.0	973.8	887.0	1253.3
Pend Oreille	1155.1	883.7	300.8	320.9
Noxon	334.6	321.1	320.1	315.2
Spokane				
Coeur d'Alene	225.1	155.0	72.2	145.3
SNAKE BASIN				
Snake				
Jackson Lake	624.4	497.8	518.4	612.5
Palisades	1200.0	1092.2	628.7	907.8
American Falls	1673.0	1225.6	1016.9	1151.2
Island Park	127.0	111.1	97.2	105.0
Grassy Lake	15.2	12.3	12.7	10.4
Brownlee	980.2	837.8	459.4	674.4
Goose-Trapper Creeks				
Oakley	74.4	27.6	26.8	26.4
Salmon Falls Creek				
Salmon Falls	182.6	42.5	17.0	51.6
Big Lost				
Mackay	44.2	36.8	24.3	30.3
Big Wood				
Magic	191.5	164.0	65.2	103.6
Little Wood				
Little Wood	30.0	20.5	12.6	16.1
Fish Creek				
Carey Valley	14.4	8.7	4.4	--
Boise				
Anderson Ranch	423.2	326.6	320.4	279.0
Arrowrock	286.6	92.5	230.8	254.3
Lucky Peak	278.2	193.4	56.5	85.9
Lake Lowell (Deer Flat)	169.0	130.6	104.7	122.1
Owyhee				
Owyhee	715.0	618.6	421.0	462.5
Payette				
Cascade	653.2	377.6	462.9	370.8
Deadwood	161.9	98.7	85.4	80.6
Weiser				
Mann Creek	11.1	7.6	6.6	--
Clearwater				
Dworshak	2016.0	963.8	773.9	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1140.6	904.3	1026.4

*Period of Record.

STREAMFLOW FORECASTS

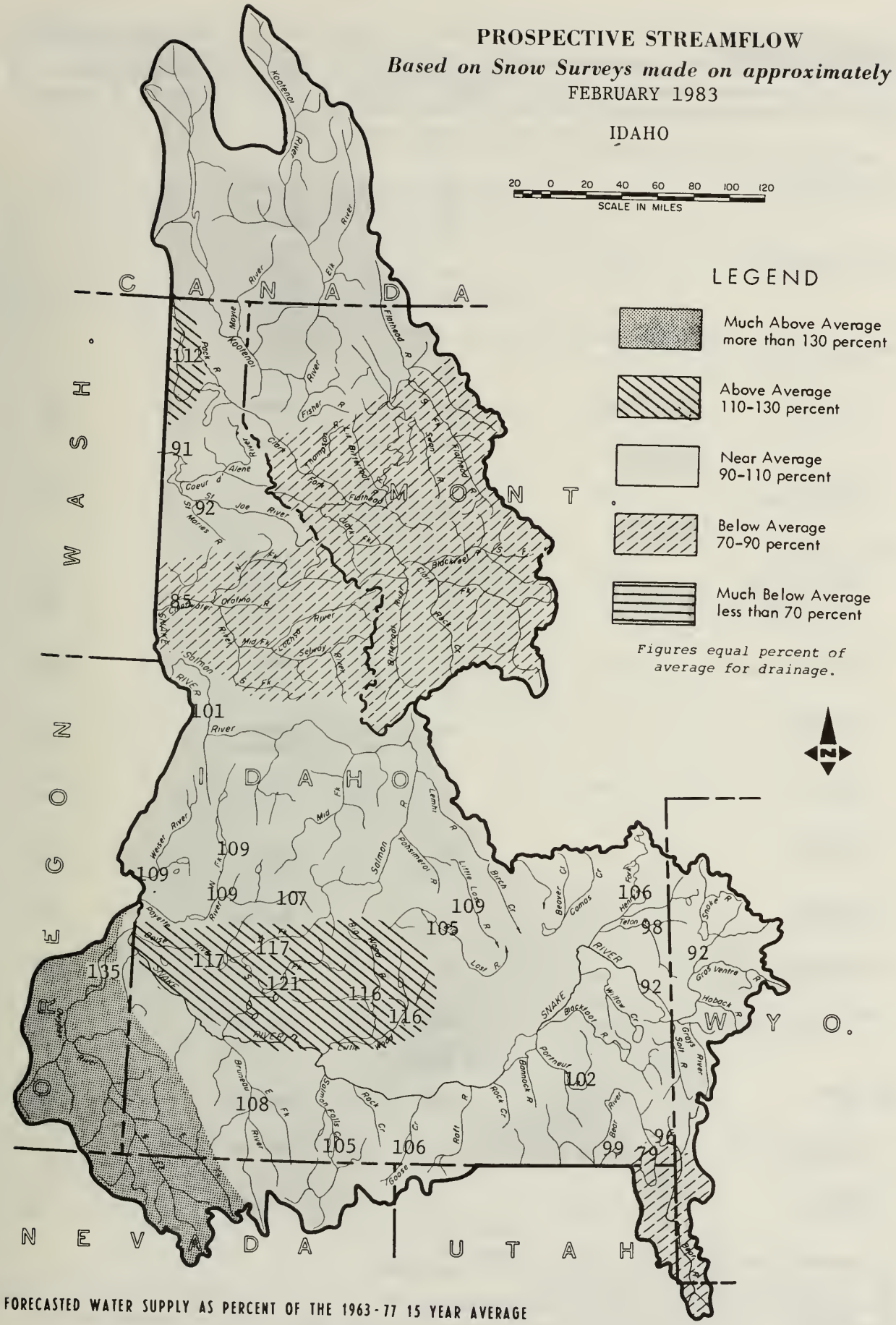
BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8700	98	Apr-Sep	--	8858
		7570	98	Apr-Jul	--	7708
		6030	98	Apr-Jun	--	6114
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	11900	86	Apr-Sep	--	13781
		10800	86	Apr-Jul	--	12519
		9150	86	Apr-Jun	--	10633
Priest River						
Priest River 1/	(at)	998	112	Apr-Sep	--	895
		938	112	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	2650	91	Apr-Sep	--	2910
		2550	91	Apr-Jul	--	2802
St. Joe River						
Calder	(at)	1200	92	Apr-Sep	--	1309
		1130	91	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	835	92	Apr-Sep	--	903
Palisades Inflow 3/		3542	92	Apr-Sep	--	3863
Heise 4/	(nr)	3910	92	Apr-Sep	--	4247
Blackfoot 5/	(nr)	5260	94	Apr-Sep	--	5612
		4310	94	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	782	106	Apr-Sep	--	737
		581	106	Apr-Jul	--	547
Rexburg 7/	(nr)	1610	105	Apr-Sep	--	1534
		1250	104	Apr-Jul	--	1202
Teton River						
South Leigh Creek	(ab)	195	97	Apr-Sep	--	201
		147	98	Apr-Jul	--	150
Portneuf River						
Topaz	(at)	110	102	Mar-Sep	--	108
		90	102	Mar-Jul	--	88
Oakley Reservoir Inflow		38	106	Mar-Sep	--	36
		35	106	Mar-Jul	--	33
		32.5	105	Apr-Sep	--	31
		29	105	Apr-Jul	--	28
Salmon Falls Creek						
San Jacinto	(nr)	100	105	Mar-Sep	--	95
		95	106	Mar-Jul	--	90
		90	106	Mar-Jun	--	85
Bruneau River						
Hot Springs	(nr)	272	108	Mar-Sep	--	251
		259	109	Mar-Jul	--	238
Little Lost River						
Howe	(nr)	49	109	Apr-Sep	--	45
		37	109	Apr-Jul	--	34
Wet Creek	(bl)	42	102	Apr-Sep	--	41
		34	103	Apr-Jul	--	33
		27	104	Apr-Jun	--	26
Big Lost River						
Howell Ranch	(at)	237	105	Apr-Sep	--	225
		210	105	Apr-Jul	--	199
		162	105	Apr-Jun	--	154

(c) Assuming normal meteorological conditions. *+1963-1977 period.*

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

FEBRUARY 1983



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Mackay 8/	(nr)	215	105	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		370	116	Apr-Sep	--	319
Inflow 9/		354	117	Apr-Jul	--	303
		390	117	Mar-Jul	--	332
Little Wood River						
Carey 10/	(nr)	124	116	Apr-Sep	--	107
		116	117	Apr-Jul	--	99
		103	118	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	855	117	Apr-Sep	--	733
		789	117	Apr-Jul	--	676
Boise 11/	(nr)	1930	117	Apr-Sep	--	1656
		1790	117	Apr-Jul	--	1536
		1590	117	Apr-Jun	--	1360
South Fork						
Anderson Dam 12/	(at)	750	121	Apr-Sep	--	622
		703	121	Apr-Jul	--	582
Owyhee River						
Gold Cr., Nv 13/	(nr)	27	117	Apr-Jul	--	23
Owyhee, Nv 13/	(nr)	100	125	Apr-Jul	--	80
Lake Owyhee		529	135	Apr-Sep	--	392
Net inflow 14/		751	130	Feb-Jul	--	578
Payette River						
Horseshoe Bend 15/	(nr)	2100	113	Apr-Sep	--	1860
		1958	114	Apr-Jul	--	1721
North Fork						
Cascade 16/	(at)	615	109	Apr-Sep	--	564
		577	109	Apr-Jul	--	529
Banks 16/	(nr)	790	109	Apr-Sep	--	726
		755	110	Apr-Jul	--	687
South Fork						
Lowman	(at)	554	107	Apr-Sep	--	516
		492	107	Apr-Jul	--	458
Weiser River						
Weiser	(nr)	611	109	Mar-Sep	--	558
Salmon River						
Whitebird	(at)	7270	101	Apr-Sep	--	7196
Clearwater River						
Spalding	(at)	7390	85	Apr-Sep	--	8672
		GREAT BASIN				
BEAR RIVER						
Harer	(at)	263	79	Apr-Sep	--	332
Montpelier Creek						
Montpelier	(nr)	12.5	90	Apr-Sep	--	13.9
Cub River						
Preston	(nr)	49.5	99	Apr-Sep	--	50
		45	96	Apr-Jul	--	47

1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake.
3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades.
5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Crassy Lake and diversions between Heise and Blackfoot.

(c) Assuming normal meteorological conditions. *+1963-1977 period.*

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST [c]		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average +

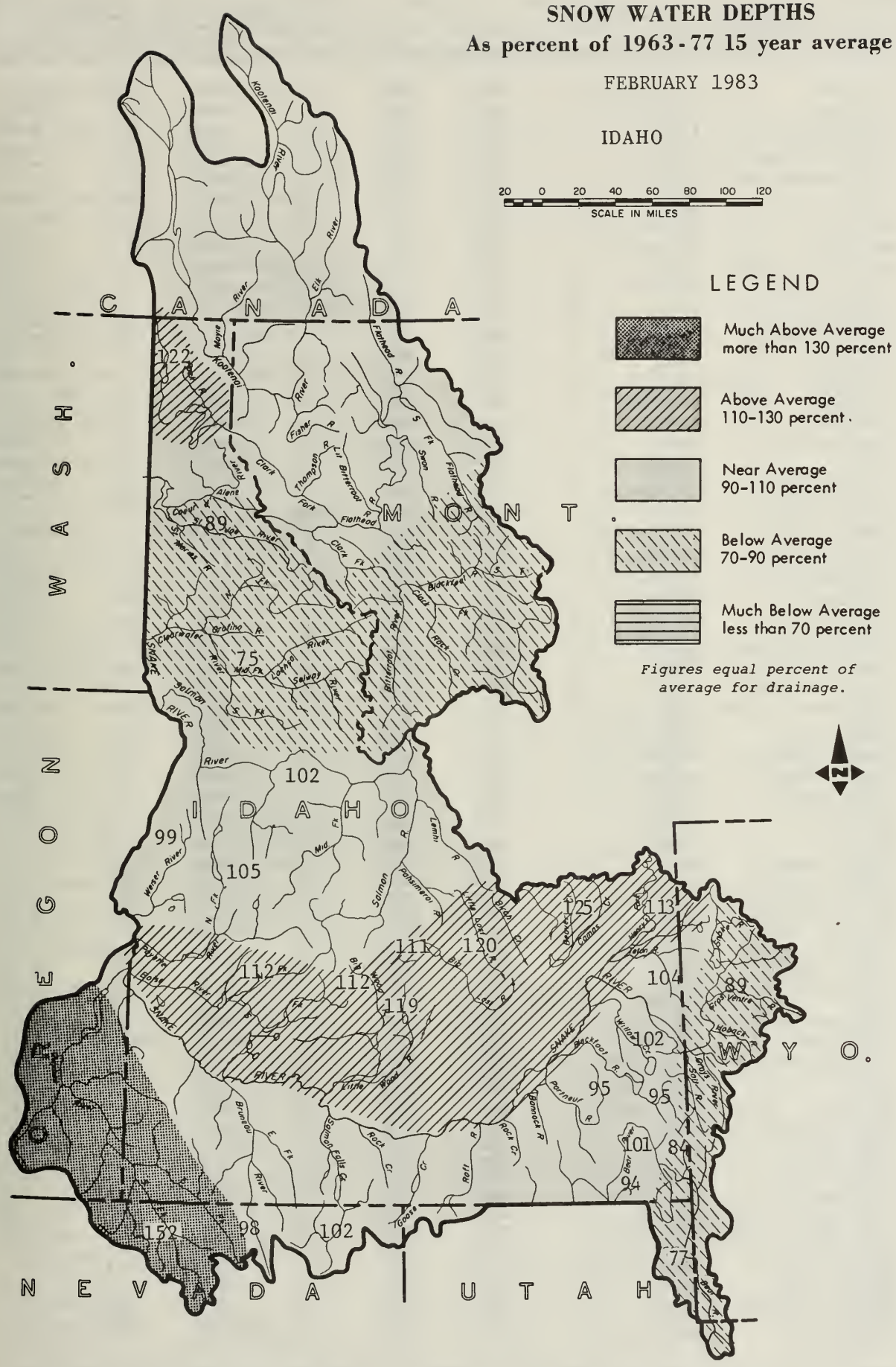
6/ Corrected for storage in Henrys' Lake and Island Park Reservoir.
7/ Corrected for storage in Henrys' Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
8/ Observed flow corrected for storage in Mackay Reservoir.
9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
10/ Corrected for storage in Little Wood Reservoir.
11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
12/ Corrected for storage in Anderson Ranch Reservoir.
13/ Corrected for storage in Wildhorse Reservoir.
14/ From Bureau of Reclamation records of inflow.
15/ Corrected for storage in Cascade and Deadwood Reservoirs.
16/ Corrected for storage in Cascade Reservoir.
Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF	
		LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	29	105	97
Pend Oreille River	83	88	87
Clark Fork River	58	80	83
Flathead River	25	102	93
Priest River	5	129	122
Spokane River	6 - 9	92	89
LOWER SNAKE RIVER BASIN			
Clearwater River	12 - 15	72	75
Salmon River	13 - 15	89	102
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5 - 6	104	120
Big Lost River	4	101	111
Little Wood River	4	121	119
Big Wood River	10 - 11	91	112
Boise River	13 - 15	94	112
Payette River	12 - 15	97	105
Weiser River	1 - 3	105	99
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	82	117
Salmon Falls Creek	5 - 7	86	102
Bruneau River	2	76	98
Owyhee River	6	93	152
Jordan Creek	1	105	155
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	26	67	89
Camas Beaver Creek	2	157	125
Henrys Fork River	7	94	113
Teton River	8 - 10	80	104
Willow Creek	5 - 9	76	102
Blackfoot River	3 - 7	70	95
Portneuf River	4 - 11	62	95
GREAT BASIN			
Bear River - Upper	6	54	77
Bear River - Lower	14	64	87
Montpelier Creek	6	57	84
Mink Creek	2	71	101
Cub River	4	68	94


SNOW WATER DEPTHS
As percent of 1963-77 15 year average
FEBRUARY 1983
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Much Above Average more than 130 percent
Above Average 110-130 percent.
Near Average 90-110 percent
Below Average 70-90 percent
Much Below Average less than 70 percent
Figures equal percent of average for drainage.
CANADA
MONT.
WASH.
IDAHO
OREGON
WYO.
NEVADA
UTAH
122
89
75
102
99
105
112
112
111
120
119
125
113
104
89
102
95
95
101
84
94
77
152
98
102

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME & DRAINAGE		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Above Burke	Coeur d'Alene	4100	1/31	40	12.5	14.2	16.4*
Allen Ranch	Blackfoot	6470	1/26	27	7.2	9.8	--
Aspen Grove	Willow	6500	1/31	31	7.3	14.3	8.4*
Atlanta Summit	Boise	7600	2/1	83	29.4	30.1	25.2
Atlanta Townsite	Boise	5370	1/31	39	11.2	11.0	--
Austin Brothers Ranch	Blackfoot	6400	1/26	24	6.6	9.8	6.4
Bad Bear	Boise	4940	1/31	38	10.6	12.5	11.0
Banner Summit	Payette	7040	1/31	69	22.7	26.2	--
Bear Basin	Little Salmon	5350	1/31	56	16.9	13.8	--
Bear Canyon	Big Lost	7900	2/1	51	13.8	14.7	13.0*
Bear Creek (A) (Nv)	Jarbidge	8040	1/26	48	14.8	18.2	13.6
Beaverdam Creek	Portneuf	6120	1/29	22	5.5	9.8	--
Benton Meadow	Priest	2370	1/28	16	4.9	5.9	5.5
Benton Spring	Priest	4920	1/28	49	16.2	12.1	13.9
Big Creek Summit	Salmon	6580	1/28	84	27.1	30.3	26.3
Big Springs	Henrys Fork	6400	1/28	47	14.9	16.1	14.7
Birch Creek	Willow	6800	1/31	27	7.3	12.3	7.4*
Black Bear (Mt)	Madison	7950	1/27	82	29.1	--	--
Blue Ridge	Blackfoot	6780	1/31	45	14.8	19.8	--
Bogus Basin	Payette	6340	1/27	66	22.0	19.7	17.6
Bogus Basin Road	Boise	5540	1/27	25	8.7	9.3	6.0
Bone	Willow	6200	1/31	21	5.3	7.0	6.0*
Boulder Creek	Weiser	5440	1/31	61	17.9	17.6	18.0
Breezy Saddle	Clearwater	5010	1/28	59	17.0	20.9	--
Brockman Station	Willow	6430	1/31	28	7.3	9.2	--
Brundage Mountain	Little Salmon	7560	1/31	83	28.8	36.6	32.2*
Camp Creek	Beaver	6580	2/3	36	10.2	5.0	8.3
Cayuse Airstrip	Clearwater	3500	1/28	24	4.6	10.5	9.7*
Copper Basin	Big Lost	7640	2/1	31	8.5	6.1	6.8
Couch Summit	Boise	6840	1/28	54	16.4	14.4	13.7*
Cozy Cove	Deadwood	5380	1/31	46	13.0	13.9	13.2*
Crater Meadows	Clearwater	5960	1/28	74	21.8	31.5	31.0*
Crawford Ranger Sta.	Payette	4860	1/30	23	6.9	7.2	6.7
Crooked Fork	Lochsa	3610	1/27	28	8.0	12.0	10.4*
Cub River Ranger Sta.	Cub	5450	1/27	22	5.5	8.6	6.4
Darby Canyon (Wy)	Teton	8250	1/31	53	15.6	21.4	15.4*
Deadline	Salmon Falls	7400	1/29	46	16.7	17.2	15.7
Deadline South	Salmon Falls	7450	1/29	56	20.4	19.5	--
Deadwood Airstrip	Deadwood	5360	1/31	46	13.7	12.6	11.7
Deadwood Summit	Deadwood	6860	1/31	103	35.8	40.1	34.8*
Dempsey Creek	Portneuf	6100	1/29	32	7.5	13.4	8.3
Dollarhide Summit	Big Wood	8420	2/1	68	22.3	25.1	18.3*
East Creek	Portneuf	7000	1/29	30	8.2	14.0	--
Elk Butte	Clearwater	5550	1/28	62	17.0	25.7	--
Emigrant Summit	Bear	7390	1/31	54	16.2	24.6	17.0
Emigration Canyon	Bear	6500	1/31	28	6.6	10.6	7.5
Fairview Guard Sta.	Little Lost	6750	1/28	22	5.0	4.8	3.7
Fish Lake Airstrip	Lochsa	5650	1/28	69	18.3	29.9	28.8*
Forty-nine Meadows	Clearwater	4830	1/28	56	15.4	19.7	--
Fourth of July Smt.	Coeur d'Alene	3200	1/28	21	7.0	8.5	7.2
Franklin Basin	Cub	8040	1/27	40	13.7	21.2	17.8*
Freds Mountain (Wy)	Teton	8150	1/27	52	17.0	21.5	13.9*
Galena	Big Wood	7440	2/1	54	16.0	17.8	14.8
Galena (new course)	Big Wood	7470	2/1	56	16.8	--	--
Galena Summit	Big Wood	8780	2/1	62	17.6	21.1	17.5
Garfield Ranger Sta.	Little Wood	6560	1/31	37	9.9	7.3	8.0*
Gibbons Pass (Mt)	Bitterroot	7100	1/27	55	17.9	20.4	16.7
Giveout	Montpelier	6860	1/28	30	7.1	12.3	8.5
Goat Creek (Nv)	Salmon Falls	8880	1/27	36	10.9	16.7	11.8
Graham Guard Sta.	Boise	5690	1/31	42	13.1	14.7	--
Graham Ranch	Big Wood	6270	2/1	46	12.8	12.0	10.5
Grassy Lake (Wy)	Henrys Fork	7265	1/28	69	22.9	31.6	24.8
Hemlock Butte	Clearwater	5810	1/28	78	22.7	36.3	35.1*
Hilts Creek	Little Lost	8000	1/31	31	9.2	10.4	--
Hoodoo Basin (Mt)	Clark Fork	6000	1/28	89	33.7	37.2	36.3*
Hoodoo Creek (Mt)	Clark Fork	5900	1/28	84	31.2	33.0	32.5*
Howell Canyon	Marsh Creek	7980	1/29	60	21.7	26.3	18.6
Humboldt Gulch	Coeur d'Alene	4250	1/31	33	10.0	12.2	--
Hyndman Creek	Big Wood	7440	2/1	42	11.5	12.0	--
Idaho City Townsite	Boise	4000	1/31	15	5.5	8.6	--
Indian Meadows	Teton	8240	1/31	87	30.6	28.3	--
Island Park	Henrys Fork	6290	1/28	45	13.9	13.4	12.0

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME & DRAINAGE		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Jakes Creek (A)	Salmon Falls	7000	1/26	19	5.1		
Jackpine (Wy)	Teton	7350	1/31	52	15.9	18.6	14.9*
Jackson Peak	Boise	7070	1/31	74	25.2	24.4	24.1*
Johnson Creek	Blackfoot	6730	1/26	31	8.8	12.4	--
Kilgore	Camas Creek	6320	1/29	38	10.9	8.4	8.6
Lake Fork	Payette	5290	1/29	41	11.3	12.3	11.2*
Langford Flat Creek	Salmon Falls	5980	1/29	19	5.1	4.9	--
Lava Creek	Willow	7350	1/31	41	12.4	15.2	--
Little Beaver	Montpelier	6970	1/28	34	8.7	15.9	10.6
Lolo Pass	Lochsa	5240	1/27	51	15.3	23.4	21.8*
Lookout	Coeur d'Alene	5140	1/31	67	22.0	21.8	25.4
Lost Garfield	Little Lost	6600	1/28	18	3.8	4.2	3.1
Lost Lake	Clearwater	6110	1/28	103	32.2	36.9	39.4*
Lost-Wood Divide	Big Lost	7900	2/1	56	17.4	20.1	17.0*
Lower Home Canyon	Montpelier	7640	1/27	28	7.2	13.6	10.1*
Lower Pebble	Portneuf	5780	1/29	28	7.1	19.8	9.2*
Magic Mountain	Rock Creek	6880	1/29	44	14.0	17.9	12.8
Mascot Mine	Big Wood	7780	2/1	40	11.0	13.0	9.8*
McRenolds Reservoir	Teton	6720	1/31	47	13.7	16.1	13.0*
Mill Creek Summit	Salmon	8800	1/29	51	16.9	21.2	17.1
Mink Creek	Portneuf	6410	1/30	46	13.1	21.7	12.4*
Montpelier Creek	Montpelier	6540	1/28	22	5.3	8.4	5.8
Moonshine	Little Lost	7440	1/28	30	7.6	8.2	7.9*
Moores Creek Summit	Boise	6100	1/31	79	27.4	27.3	23.7
Moose Creek	North Fork Salmon	6200	1/28	44	13.0	17.6	12.6
Morgan Creek	Salmon	7600	1/28	35	10.0	12.9	10.3
Mosquito Ridge	Coeur d'Alene	5200	1/27	87	30.4	21.2	24.5*
Mount Baldy	Big Wood	8920	1/30	65	18.2	20.3	15.2*
Mud Creek	Willow	7100	1/31	51	15.6	18.8	--
Muldoon	Little Wood	6320	1/31	28	8.0	4.3	6.2*
Packsaddle Spring	Teton	8200	1/31	62	21.5	26.4	--
Pebble Creek	Portneuf	6550	1/29	38	11.2	17.2	11.2
Phillips Bench (Wy)	Teton	8200	1/28	60	17.8	27.4	17.8*
Pierce Ranger Sta.	Clearwater	3080	1/27	14	3.6	10.8	8.6
Pine Creek Pass	Teton	6810	1/27	37	11.0	15.7	12.0
Pole Creek Ranger Sta.	Jarbidge	8360	1/28	41	12.8	17.9	14.4
Prairie	Boise	4800	1/30	20	5.4	7.4	5.5
Road Creek	Boise	5380	2/1	25	7.6	--	9.6*
Rock Flat Summit	Payette	5310	1/3	53	15.9	12.2	13.3
Savage Pass	Lochsa	6170	1/27	49	14.9	22.2	19.1*
Sawmill Canyon	Little Lost	7000	1/28	26	6.6	6.8	6.0*
Sawtell Mountain	Henrys Fork	8720	1/28	79	30.1	28.7	22.8*
Schweitzer Basin	Pend Oreille	6090	2/1	108	39.8	--	--
Schweitzer Bowl	Pend Oreille	4800	2/1	77	28.0	21.8	21.8*
Schweitzer Ridge	Pend Oreille	6200	2/1	100	40.0	31.5	32.6*
Secesh Summit	Payette	6520	1/29	81	28.3	29.7	26.3*
Sedgwick Peak	Portneuf	7850	1/29	42	12.5	18.5	--
Seventy-Six Creek	Jarbidge-Bruneau	7100	1/25	35	9.9	13.6	7.8
Shanghai Summit	Clearwater	4570	1/28	46	12.3	20.9	17.4*
Sheep Mountain	Willow	6570	1/31	39	11.3	11.6	9.8*
Sherwin	St. Maries	3200	1/28	23	6.5	13.2	10.7
Shoshone Basin	Salmon Falls	5810	1/29	19	5.8	5.3	4.4*
Silver City (A)	Jordan-Owyhee	6400	1/28	48	15.4	16.6	11.1*
Slug Creek Divide	Blackfoot	7230	1/28	35	9.7	15.5	11.5
Soldier Ranger Sta.	Big Wood	5740	1/28	45	13.6	10.9	9.8
Somsen Ranch	Willow Creek	6840	1/26	35	10.4	13.4	10.1
South Mountain	Jordan-Owyhee	6500	2/1	48	15.4	14.6	9.9
Squaw Flat	Weiser	6240	1/29	65	20.4	18.4	--
Squaw Meadow	Payette	5900	1/29	78	28.1	29.0	25.8*
State Line	Teton	6660	1/27	34	9.8	11.9	10.0
Stickney Mill	Big Lost	7430	2/1	33	8.0	6.1	6.0*
Strawberry Creek	Mink	5820	1/31	29	8.4	9.9	7.4
Succor Creek (A)	Jordan-Owyhee	6100	1/28	30	9.6	7.8	3.8
Sulphur Peak	Blackfoot	7070	1/26	33	9.8	13.8	--
Sunset	Coeur d'Alene	5540	1/26	63	21.8	23.5 Est	--
Swede Peak	Little Wood	7640	1/31	52	15.8	12.8	12.6
Targhee Pass	Henrys Fork	6980	1/28	36	10.1	10.2	10.5*
Teton Pass W.S. (Wy)	Teton	7740	1/26	55	17.0	24.4	16.8*
Tex Creek	Willow	6650	1/31	30	7.8	8.5	6.5*
Trinity Mountain	Boise	7770	2/1	93	32.5	38.2	31.1
Upper Home Canyon	Montpelier	8560	1/27	47	14.1	24.1	16.3*
Valley View	Henrys Fork	6680	1/28	43	13.9	11.9	12.5

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

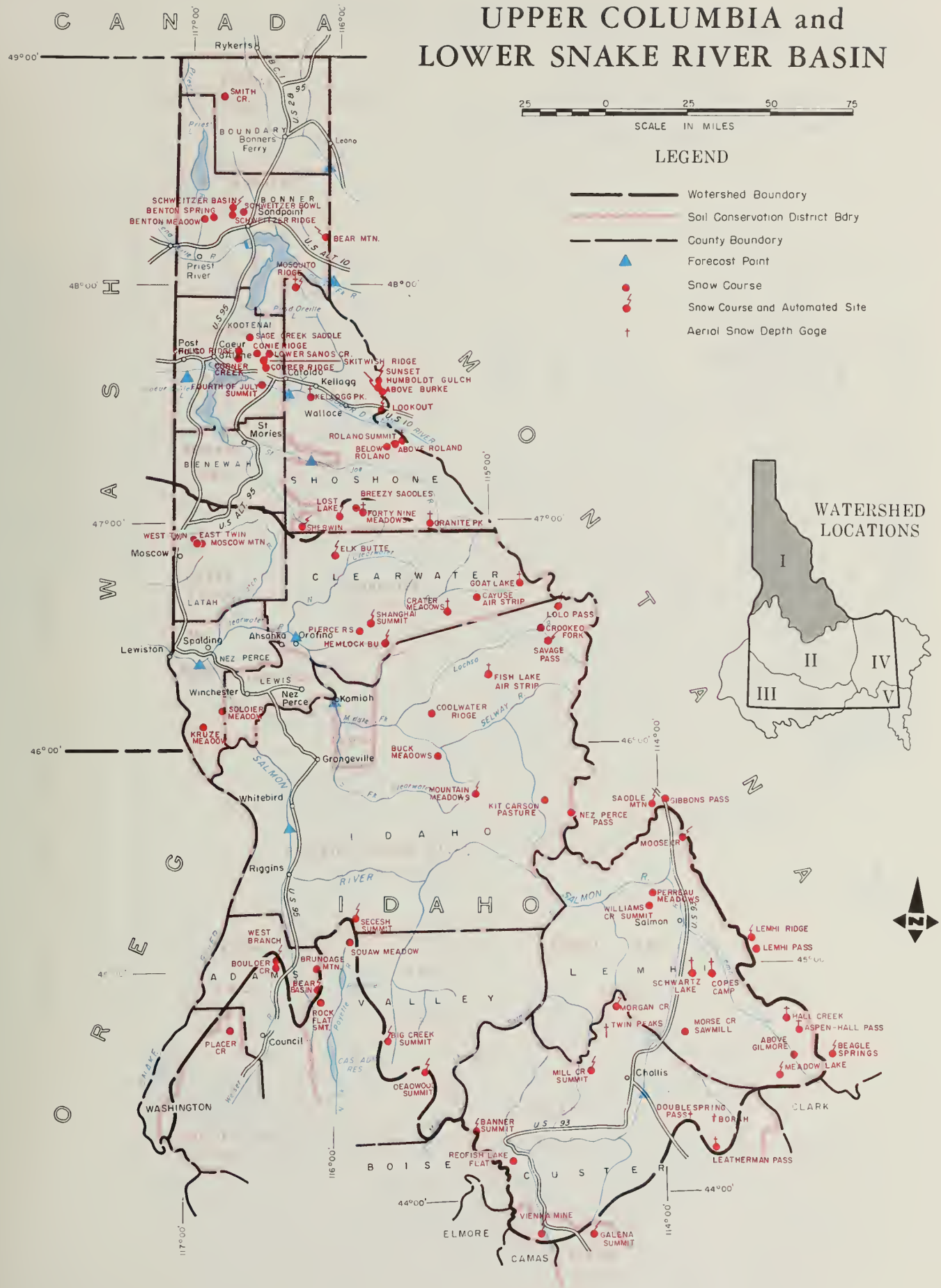
SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME & DRAINAGE		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average
Vienna Mine	Salmon	8960	1/31	79	26.2	33.4	26.1*
War Eagle	Jordan-Owyhee	7280	1/28	75	25.5	--	16.3
West Branch	Weiser	5560	1/31	66	19.6	19.0	--
Wet Creek Summit	Little Lost	7680	1/31	38	12.3	8.1	8.7*
Whiskey Flat	Montpelier	6960	1/28	25	6.0	10.3	6.5
White Elephant	Henrys Fork	7710	1/28	58	18.8	20.1	13.2*
Wildhorse Divide	Portneuf	6490	1/30	47	13.0	18.8	--
Willow Flat	Cub	6070	1/27	33	9.0	14.2	10.9
Wood Canyon Divide	Blackfoot	7450	1/26	36	11.2	16.0	--

SNOTEL 1/

Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulative) (inches)
Atlanta Summit	Boise	2/1	23.8	28.6
Banner Summit	Payette	2/1	20.5	24.0
Bear Basin	Little Salmon	2/1	16.8	20.7
Bear Canyon	Big Lost	2/1	13.0	19.0
Bear Mountain	Clark Fork	2/1	49.2	56.2
Bear Saddle	Mann Creek	2/1	24.0	22.0
Bennett Mountain	Canyon Creek	2/1	19.8	18.9
Big Creek Summit	Salmon	2/1	24.6	23.3
Bostetter Ranger Sta.	Trapper	2/1	18.0	9.0
Cozy Cove	Deadwood	2/1	16.1	20.7
Crab Creek	Camas Beaver	2/1	15.4	15.9
Deadwood Summit	Deadwood	2/1	38.0	35.9
Dollarhide Summit	Big Wood	2/1	21.5	24.1
Elk Butte	Clearwater	2/1	Not Available	Not Available
Emigrant Summit	Bear	2/1	19.5	17.8
Franklin Basin	Cub	2/1	15.4	17.3
Galena	Big Wood	2/1	14.6	15.7
Galena Summit	Big Wood	2/1	14.5	17.7
Garfield Ranger Sta.	Little Wood	2/1	10.7	12.6
Giveout	Montpelier	2/1	7.5	7.2
Graham Guard Sta.	Boise	2/2	14.7	19.6
Hilts Creek	Little Lost	2/3	11.6	11.4
Howell Canyon	Marsh Creek	2/1	17.6	20.1
Humboldt Gulch	Coeur d'Alene	2/1	9.9	28.5
Hyndman	Big Wood	2/2	10.0	13.3
Island Park	Henrys Fork	2/1	12.5	15.8
Jackson Peak	Boise	2/1	23.9	27.1
Lolo Pass	Lochsa		Not Available	Not Available
Lookout	Coeur d'Alene	2/1	22.6	28.6
Lost Lake	Clearwater	2/1	39.8	38.7
Lost-Wood Divide	Big Lost	2/1	16.8	20.5
Magic Mountain	Rock Creek	2/1	14.6	15.6
Meadow Lake	Lemhi	2/1	13.1	12.5
Mill Creek Summit	Salmon	2/1	14.9	15.1
Moonshine	Little Lost	2/1	8.5	9.9
Moores Creek Summit	Boise	2/1	28.4	28.7
Moose Creek	North Fork Salmon	2/1	12.5	14.1
Morgan Creek	Salmon	1/31	10.5	11.9
Mosquiteo Ridge	Coeur d'Alene	2/1	31.5	35.3
Mountain Meadows	Selway	2/1	11.3	14.9
Mud Flat	Owyhee	2/1	4.7	8.4
Oxford Spring	Malad	2/1	7.6	12.7
Prairie	Boise	2/1	Not Available	12.0
Schweitzer Basin	Pend Oreille	2/1	46.3	30.7
Secesh Scummit	Payette	2/1	28.8	28.5
Shanghai Summit	Clearwater		Not Available	Not Available
Sheep Mountain	Willow	2/1	Not Available	12.3
Sherwin	St. Maries	2/1	6.9	20.1
Slug Creek Divide	Blackfoot	2/1	10.9	12.8
Somsen Ranch	Willow Creek	2/1	8.8	10.5
South Mountain	Jordan-Owyhee	2/1	20.6	17.7
Squaw Flat	Weiser	2/1	19.0	23.5
Stickney Mill	Big Lost	2/1	7.5	8.9
Sunset	Coeur d'Alene	2/1	25.3	19.7
Swede Peak	Little Wood	2/1	14.6	16.1
Trinity Mountain	Boise	2/1	31.2	37.2
Vienna Mine	Salmon	2/1	27.0	27.2
West Branch	Weiser	2/1	20.0	23.8
White Elephant	Henrys Fork	2/1	19.8	23.2
Wildhorse Divide	Portneuf	2/1	8.1	12.7

1/ Data readings as reported by automated Snotel system.



USDA-SCS—FORT WORTH, TEXAS 1982 M7-OL-22023-1

INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
		KOOTENAI RIVER				
16A1	I	Smith Creek	29	64N	3W	4800
		PEND OREILLE-PRIEST RIVER				
16A8S	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4920
16A10S	I	Schweitzer Basin	18	58N	2W	6090
16A6	I	Schweitzer Bowl	20	58N	2W	4800
16A5	I	Schweitzer Ridge	19	58N	2W	6200
		HAYDEN CREEK				
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Sadler	10	52N	2W	4080
		SPOKANE RIVER				
15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	35	47N	6E	3920
16B2	I	Copper Ridge	6	50N	1W	4820
16B3	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	4	42N	8E	6000
15B21S	I	Humboldt Gulch	2	48N	5E	4250
16B5A	I	Kellog Peak	19	48N	3E	5560
15B2S	I	Lookout	4	47N	6E	5140
16B1	I	Lower Sands Creek	32	51N	1W	3120
16A4AS	I	Mosquito Ridge	5	54N	2E	5200
15B5A	I	Roland Summit	26	47N	6E	5120
16C1S	I	Sherwin	28	42N	1E	3200
16B4	I	Skitwish Ridge	6	50N	1W	4850
15B9AS	I	Sunset	33	49N	5E	5540

LOWER SNAKE BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
		PALOUSE RIVER				
16C3	I	East Twin	13	40N	5W	4130
16C2	I	Moscow Mountain	18	40N	4W	4410
16C4	I	West Twin	14	40N	5W	4220
		CLEARWATER RIVER				
15B20	I	Breezy Saddle	1	43N	4E	5010
15D5	I	Buck Meadows	27	31N	8E	5650
15C3	I	Cayuse Airstrip	4	38N	11E	3500
15C7	I	Coolwater Mountain	31	33N	8E	6040
15C9A	I	Crater Meadows	11	37N	9E	5960
14C11	I	Crooked Fork	27	37N	14E	3610
16C15	I	Elk Butte	6	40N	3E	5550
15C2A	I	Fish Lake Airstrip	34	35N	11E	5650
15B3A	I	Forty-nine Meadows	6	43N	5E	4830
14C9A	I	Goat Lake	3	38N	13E	6500
16C6SR	I	Hemlock Butte	7	36N	7E	5810
15C10S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	15E	4950
16C17	I	Kruze Meadows	11	32N	4W	4780
14C5S	I	Lolo Pass	16	38N	15E	5240
15B14S	I	Lost Lake	9	43N	4E	6110
15D6S	I	Mountain Meadows	9	27N	10E	6360
14D1	M	Nez Perce Pass	25	1S	24W	6570
15CS	I	Pierce Ranger Station	2	36N	5E	3080
14C4S	I	Savage Pass	18	36N	15E	6170
15C4S	I	Shanghai Summit	7	37N	6E	4600
16C18	I	Soldier Meadows	33	33N	3W	4650
		SALMON RIVER				
13E19	I	Above Gilmore	13	13N	26E	8240
13E21A	I	Aspen-Hall Pass	6	16N	28E	8200
16E11S	I	Bear Basin	30	19N	3E	5350
15E2S	I	Big Creek Summit	24	15N	5E	6580
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17	I	Copes Camp	36	18N	22E	7520
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9860
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23S	M	Lemhi Ridge	4	10S	15W	8100
13E18S	I	Meadow Lake	26	13N	26E	9150
14E1S	I	Mill Creek Summit	8	13N	17E	8800
13D16S	I	Moose Creek	14	27N	21E	6200
14E4S	I	Morgan Creek	31	18N	19E	7600
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14D5	I	Perreau Meadows	23	21N	20E	8500
14E7	I	Redfish Lake Flat	35	10N	13E	6560
13E16	I	Schwartz Lake	34	18N	22E	8540
14E3A	I	Twin Peaks	28	15N	17E	9190
14F4S	I	Vienna Mine	1	5N	13E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7990

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

USDA—SCS—FORT WORTH, TEXAS 1982 M-7-CL-22023-1

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Automated Site
- Aerial Snow Depth Gage

USDA-SCS-FORT WORTH, TEXAS 1982 (17-OL-22023-2)

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		LITTLE LOST RIVER				
13E5	I	Fairview Guard Station	27	12N	26E	6750
13E10S	I	Hilts Creek	15	8N	25E	8000
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6S	I	Moonshine	31	13N	26E	7440
13E4	I	Sawmill Canyon	17	12N	26E	7000
13E7	I	Wet Creek Summit	15	8N	25E	7680
		BIG LOST RIVER				
13F3S	I	Bear Canyon	22	5N	21E	7900
13F2	I	Copper Basin	26	6N	21E	7640
13F20	I	Dry Fork	23	3N	23E	7220
13F8	I	Fishpole Lake	28	4N	22E	9300
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6700
14F3S	I	Lost Wood Divide	25	6N	18E	7900
14F2S	I	Stickney Mill	9	6N	19E	7430
		BIG WOOD RIVER				
15F9	I	Camas Creeks Divide	11	2S	9E	5710
15F15	I	Chimney Creek	9	1N	12E	6400
14F8S	I	Dollarhide Summit	9	3N	15E	8420
14F1	I	Galena	4	6N	15E	7440
14F6S	I	Galena Snotel	4	6N	15E	7470
14F12S	I	Galena Summit	7	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6270
14F16S	I	Hyndman Creek	2	4N	19E	7440
14F7	I	Mascot Mine	8	4N	20E	7780
14F9	I	Mount Baldy	23	4N	17E	8920
14F11	I	Soldier Ranger Station	29	2N	14E	5740
		LITTLE WOOD RIVER				
13F4S	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	26	3N	21E	6320
13F9S	I	Swede Peak	4	3N	21E	7640
		FISH CREEK				
13F10	I	Iron Mine Creek	33	3N	23E	6300
13F6	I	Telfer Ranch	7	2N	23E	5840
		BOISE RIVER				
15F8	I	Atlanta Townsite	3	5N	11E	5370
15F4S	I	Atlanta Summit	23	5N	10E	7580
15F2	I	Bad Bear	35	7N	6E	4940
16F4	I	Bogus Basin Road	32	5N	3E	5540
		BOISE RIVER (cont.)				
14F10	I	Couch Summit	9	2N	14E	6840
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14S	I	Graham Guard Station	9	7N	10E	5690
15F10	I	Idaho City Townsite	26	6N	5E	4000
15E9S	I	Jackson Peak	7	8N	9E	7070
15F1S	I	Moores Creek Summit	19	7N	7E	6100
15F6S	I	Prairie	13	2N	7E	4800
15F3	I	Road Creek	5	5N	8E	5380
15F5S	I	Trinity Mountain	6	3N	9E	7770
		CANYON CREEK				
15F7S	I	Bennett Mountain	7	2S	9E	6560
15F12	I	Little Camas Flat	21	1S	9E	4940
		PAYETTE RIVER				
15E11S	I	Banner Summit	11	11N	10E	7040
16F2	I	Bogus Basin	16	5N	3E	6340
15E8S	I	Cozy Cove	17	11N	7E	5380
15E3	I	Crawford Ranger Station	21	14N	4E	4860
15E10	I	Deadwood Airstrip	8	11N	7E	5360
15E4S	I	Deadwood Summit	13	14N	7E	6860
15E1	I	Lake Fork	3	18N	4E	5290
16E1	I	Rock Flat Summit	1	18N	2E	5310
15D1S	I	Secesh Summit	4	21N	4E	6520
15D2	I	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5260
		WEISER RIVER				
16D1	I	Boulder Creek	16	20N	1W	5440
16E2	I	Placer Creek	15	17N	3W	5860
16E5S	I	Squaw Flat	32	17N	2E	6240
16D8S	I	West Branch	15	20N	1W	5560
		MANN CREEK				
6E10S	I	Bear Saddle	29	15N	5W	6180
16E9	I	Mann Creek	20	15N	5W	6080
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E2	I	Thorson Cabin	12	14N	6W	5320

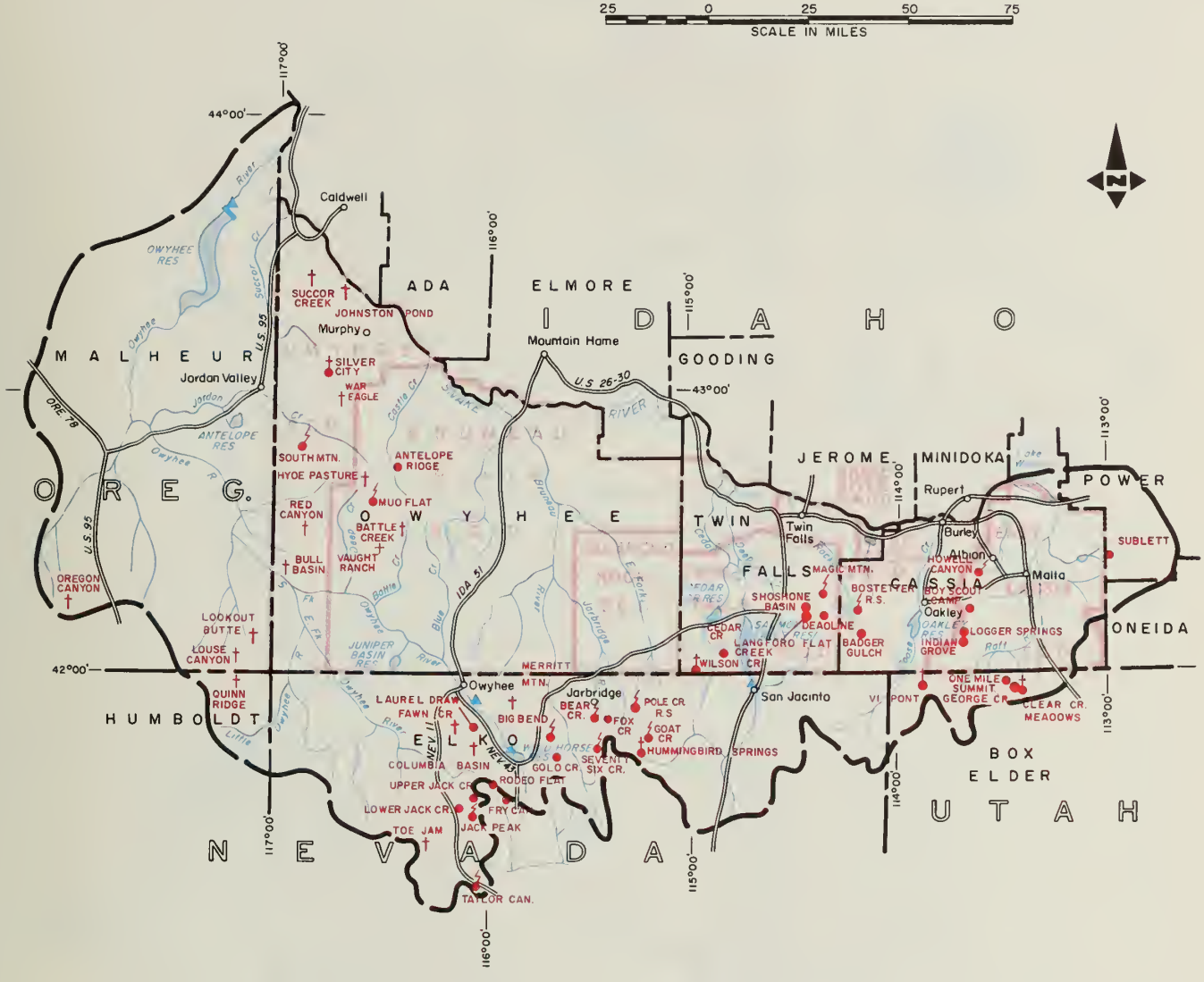
LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

USDA—SCS—FORT WORTH, TEXAS 1982 M7-OL-22023-2

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forcast Point
- Snow Course
- Snow Course and Automated Site
- Aerial Snow Depth Gage

USDA—SCS—FORT WORTH, TEXAS 1982 M7-OL-2202 3-3

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elevation
		RAFT RIVER				
13G2	I	Boy Scout Camp	8	14S	24E	7740
13H2	U	Clear Creek Meadows	26	14N	14W	9420
13H5	U	George Creek	26	14N	14W	8840
13G1S	I	Howell Canyon	2	13S	24E	7980
13G4	I	Indian Grove	14	15S	23E	7560
13G3	I	Logger Springs	2	15S	23E	8120
13H1	U	One Mile Summit	17	14N	14W	7330
12G8	I	Sublett	17	12S	30E	5950
		GOOSE - TRAPPER CREEK				
14G3	I	Badger Gulch	24	15S	19E	6660
14G1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670
		SALMON FALLS CREEK				
14G5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
15H13S	N	Goat Creek	31	46N	60E	8880
14G08	I	Langford Flat Creek	8	15S	18E	5980
14G2S	I	Magic Mountain	25	14S	18E	6880
14G6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500
		BRUNEAU RIVER				
15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S	N	Pole Creek Ranger Station	13	46N	59E	8330
15H3S	N	Seventy-six Creek	6	44N	58E	7100
		OWYHEE RIVER				
16G6	I	Antelope Ridge	3	9S	1W	6180
16G9A	I	Battle Creek	10	11S	1E	5720
15H4S	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
16H6A	N	Columbia Basin	31	44N	53E	6650
16H8A	N	Fawn Creek	2	45N	52E	7000
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	32	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4S	N	Jacks Peak	21	42N	53E	8420
16F5A	I	Johnston Pond	5	4S	4W	6700
16H5S	N	Laurel Draw	20	45N	53E	6700
17G6A	O	Lookout Butte	2	40S	47E	5650
17G4A	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
15H20A	N	Merritt Mountain	10	46N	54E	7000
16G7S	I	Mud Flat	34	9S	2W	5730
17G5A	O	Oregon Canyon	8	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16G11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3	I	Silver City	7	5S	3W	6400
16G1S	I	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3S	5W	6100
15H9S	N	Taylor Canyon	35	39N	53E	6200
16H7A	N	Toe Jam	29	40N	50E	7700
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12A	I	Vaught Ranch	23	11S	1W	5830
16G13A	I	War Eagle	16	5S	3W	7720

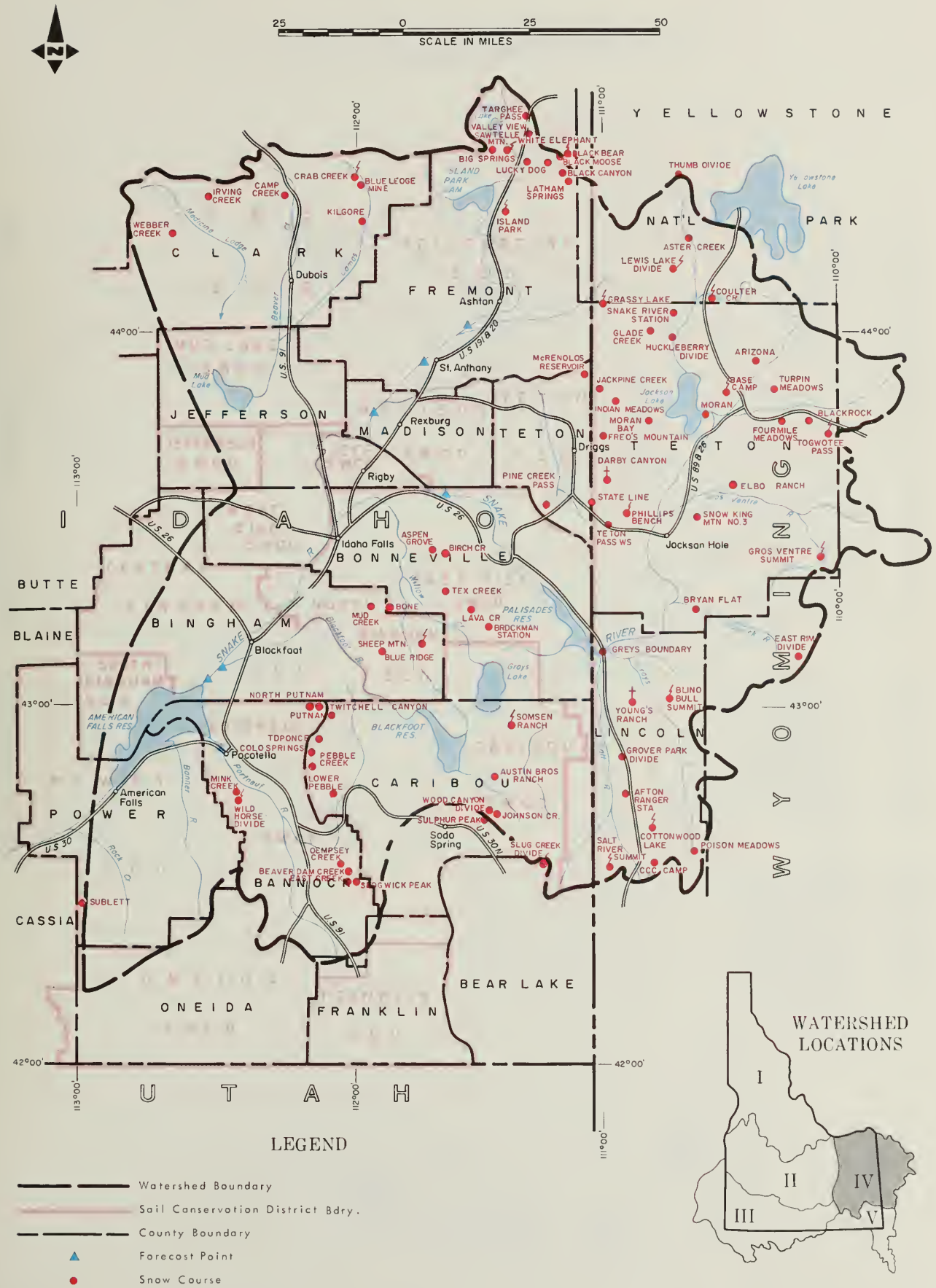
LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

USDA—SCS—FORT WORTH TEXAS 1982 M7-OL-22023-3

UPPER SNAKE RIVER BASIN



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Automated Site
- Aeriol Snow Depth Gage

USDA-SCS-FORT WORTH TEXAS-1982 M7-DL-22023-4

INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
SNAKE RIVER-WYOMING						
10G4	Wy	Afton Ranger Station	30	32N	118W	6240
10F1	Wy	Arizona	3	46N	115W	6820
10E8	Wy	Aster Creek	44°17'		110°38'	7750
10F2S	Wy	Base Camp	20	46N	113W	7030
10F7S	Wy	Blackrock	4	44N	111W	8900
10G2S	Wy	Blind Bull	6	34N	115W	8650
10F14	Wy	Bryan Flat	9	38N	115W	6420
10G7	Wy	CCC Camp	9	29N	118W	7000
10G5S	Wy	Cottonwood Lake	25	31N	118W	7600
10E10S	Wy	Coulter Creek	44°10'		110°33'	7020
10F17	Wy	East Rim Divide	32	37N	111W	7930
10F28	Wy	Elbo Ranch	25	43N	115W	7100
10F6	Wy	Four Mile Meadows	35	45N	112W	7860
10E13	Wy	Glade Creek	12	48N	116W	7040
10F18	Wy	Greys Boundary	33	37N	118W	5720
10F19S	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7000
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9S	Wy	Lewis Lake Divide	44°12'		110°40'	7850
10F4	Wy	Moran	19	45N	114W	6750
10F3	Wy	Moran Bay	14	45N	116W	6810
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8S	Wy	Salt River Summit	32	29N	118W	7700
10E12	Wy	Snake River Station	9	48N	115W	6920
10F20	Wy	Snow King Mountain #3	4	40N	116W	7660
10E7	Wy	Thumb Divide	44°22'		110°34'	7980
10F9S	Wy	Togwotee Pass	28	44N	110W	9580
10F5	Wy	Turpin Meadows	14	45N	112W	6900
10G1A	Wy	Young's Ranch	26	34N	116W	6650
HENRY'S FORK RIVER						
11E9	I	Big Springs	4	13N	44E	6400
11E35S	M	Black Bear	27	15S	5E	7950
11E18	I	Black Canyon	11	13N	45E	7960
11E19	I	Black Moose	33	14N	45E	8160
11OE15S	Wy	Grassy Lake	18	48N	116W	7265
11E10S	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7630
11E14	I	Lucky Dog	2	13N	44E	6860
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	6980
11E8	I	Valley View	12	15N	43E	6680
11E36S	I	White Elephant	17	14N	43E	7710
TETON RIVER						
10F21A	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8000
10F25	Wy	Indian Meadows	33	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6720
10F23S	Wy	Phillips Bench	43°31'		110°55'	8200
11F2	I	Pine Creek Pass	24	3N	44E	6810
11F1	I	State Line	32	3N	46E	6660
10F24	Wy	Teton W. S.	43°30'		110°59'	7740

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
CAMAS-BEAVER CREEK						
11E11	I	Blue Ledge Mine	21	13N	38E	6900
12E3	I	Camp Creek	21	13N	36E	6580
11E17S	I	Crab Creek	21	13N	38E	6860
11E12	I	Kilgore	6	12N	39E	6320
MEDICINE LODGE CREEK						
12E4	I	Irving Creek	8	13N	33E	7280
12E5	I	Webber Creek	23	12N	32E	6700
WILLOW CREEK						
11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Lava Creek	27	1S	42E	7350
11F14	I	Mud Creek	4	2S	39E	7100
11F11S	I	Sheep Mountain	30	2S	41E	6570
11F5	I	Tex Creek	36	1N	41E	6650
BLACKFOOT RIVER						
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11F17	I	Blue Ridge	35	2S	39E	6780
11G22	I	Johnson Creek	4	9S	43E	6730
11G5S	I	Slug Creek Divide	15	10S	44E	7225
11G1S	I	Somsen Ranch	25	5S	43E	6800
11G19	I	Sulphur Peak	8	9S	43E	7070
11G23	I	Wood Canyon Divide	5	9S	43E	7450
FORT PORTNEUF RIVER						
12G7	I	Beaverdam Creek	22	10S	38E	6120
12G16	I	Cold Springs	15	7S	37E	7000
12G5	I	Dempsey Creek	18	10S	38E	6100
11G24	I	East Creek	26	10S	38E	7000
12G6	I	Lower Pebble	7	8S	38E	5780
12G1	I	Mink Creek	33	7S	34E	6410
12G20	I	North Putnam	29	5S	37E	7240
12G2	I	Pebble Creek	35	7S	37E	6400
12G14	I	Putnam	2	6S	37E	7220
11G17	I	Sedgwick Peak	30	10S	39E	7850
12G15	I	Toponce	23	6S	37E	6160
12G19	I	Twitchell Canyon	21	5S	37E	6300
12G17S	I	Wildhorse Divide	4	8S	34E	6490

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

USDA—SCS—FORT WORTH, TEXAS 1982 M7-OL-22023-4

GREAT BASIN

USDA-SCS-FORT WORTH, TEXAS-1982 MP-CL-22023-F

INDEX to SNOW COURSES

GREAT BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elevation
		BEAR RIVER				
10G11	Wy	Big Park	7	27N	117W	8620
11H13S	U	Dry Bread Pond	19	8N	4E	8350
11G7	I	Emigration Canyon	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burts-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	25	1N	9E	9400
10G12S	Wy	Kelly Ranger Station	1	26N	118W	8200
11H12P	U	Monte Cristo R. S.	4	8N	4E	8960
10G19	Wy	South Thomas Fork	27	27N	119W	7840
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	IN	9E	9300
		MONTPELIER CREEK				
11G16	I	Giveout	2	12S	45E	6840
11G25S	I	Giveout Snotel	2	12S	45E	6930
11G20	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G18	I	Montpelier Creek	14	12S	45E	6540
11G26	I	Upper Home Canyon	31	11S	45E	8560
11G21	I	Whiskey Flat	26	11S	45E	6960
		MINK CREEK				
11G11	I	Christensen Ranch	27	13S	41E	5560
11G14A	I	Dry Basin	30	13S	42E	7820
11G6S	I	Emigrant Summit	21	12S	42E	7390
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	13S	42E	8600
11G9	I	Strawberry Creek	9	13S	41E	5820
11G10	I	Strawberry Mink Divide	14	13S	41E	6720
		CUB RIVER				
11G12	I	Cub River Ranger Station	9	15S	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G2S	I	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620
		MALAD RIVER				
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	13S	37E	6360
12G11	I	Lower Elkhorn	30	12S	36E	6960
12G3	I	Oxford Mountain	27	13S	37E	6800
12G18S	I	Oxford Spring	27	13S	37E	6740
12G10	I	Upper Elkhorn	25	12S	35E	7140

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage
10J7P	Precipitation gage

USDA—SCS—FORT WORTH, TEXAS 1982 M7-OL-22023-5

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Room 345
304 N. 8th St.
Boise, Idaho 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101
U.S. MAIL
FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

551.573
Un 36wi

Water Supply Outlook For Idaho

THE LIBRARY OF THE
MAR 31 1983
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES
NOAA, NATIONAL WEATHER SERVICE

AS OF
Mar. 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

PETER C. MEYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
PETER L. PALMER, Hydrologist
PAUL K. BROWN, JR., Electronics Technician
KATHERN G. WOOTTON, Statistical Assistant
SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR MARCH 1, 1983

The water supply outlook for the 1983 season is good to excellent for the Snake River and its tributaries upstream from the Salmon River; fair for the Clearwater and Palouse drainages, and good for the Spokane and Priest River drainages in Northern Idaho. Forecasts for April through September runoff range from a low of 90 percent on the Clearwater drainage in North Idaho to a high of 157 percent of average on the Little Wood drainage in South Central Idaho. The Owyhee Reservoir inflow in Eastern Oregon is forecast at 174 percent of normal.

Currently, snowpack conditions range from a low of 78 percent of average on the Clearwater drainage to a high of 175 percent of average on the Owyhee drainage with most basins on the Snake drainage ranging from 91 percent to 153 percent of normal. The Bear River basin in the southeastern part of the state is at 79 percent of normal.

The range of valley precipitation for stations in Idaho was from 48 percent of average at Grace to 207 percent of average at Ketchum with the state as a whole standing at 133 percent of average. For the water year, the Gem State has had 122 percent of normal precipitation. Temperatures remained mild again this month with averages from 5° F. to 8° F. above normal.

Reservoir carryover storages remain near to well above normal in most reservoirs and soil moisture conditions continue to be good to excellent throughout the state.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

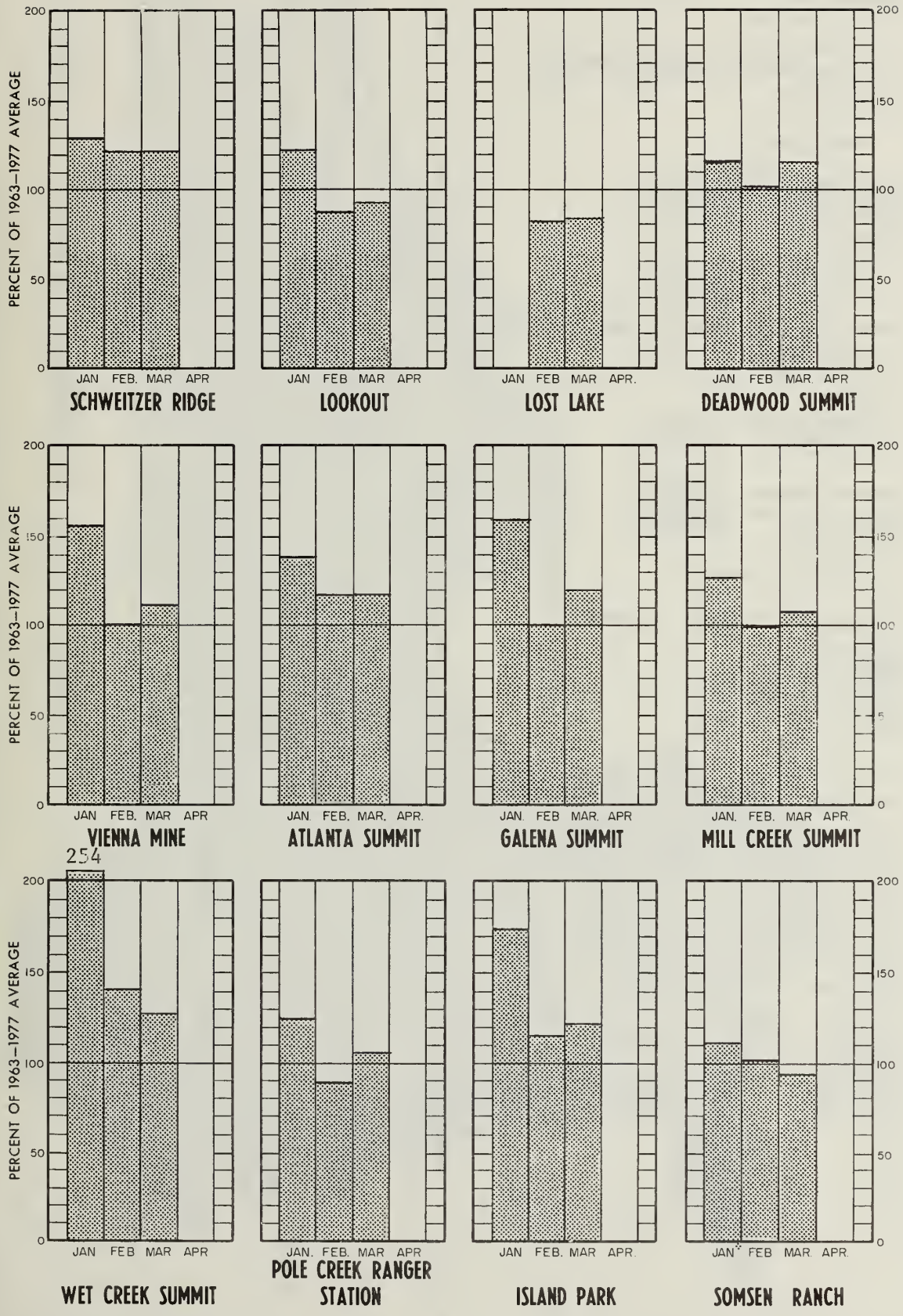
DRAINAGE DIVISIONS	Winter Feb. 1983 Observed	Winter Feb. 1983 Departure 2/	Fall - Winter Nov. 82 - Feb. 1983 Observed	Fall - Winter Nov. 82 - Feb. 1983 Departure 2/
Kootenai, Canada & U.S.	2.06	+ .11	10.80	- .85
Flathead	1.13	- .61	7.65	- 1.55
Clark Fork	1.16	- .11	5.58	- 1.20
Pend Oreille-Spokane	3.60	+ .76	15.48	+ .46
Upper Snake	2.01	+ .16	8.44	- .15
Snake River Plain	1.25	+ .47	4.41	+ .11
Salmon-Payette-Boise	2.95	+ 1.20	11.50	+ .44
Clearwater	2.97	+ .10	11.62	- 3.30
Owyhee-Malheur	1.20	+ .35	5.58	+ .76

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1963-1977) drainage division average.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 — 1977 15 Year Average

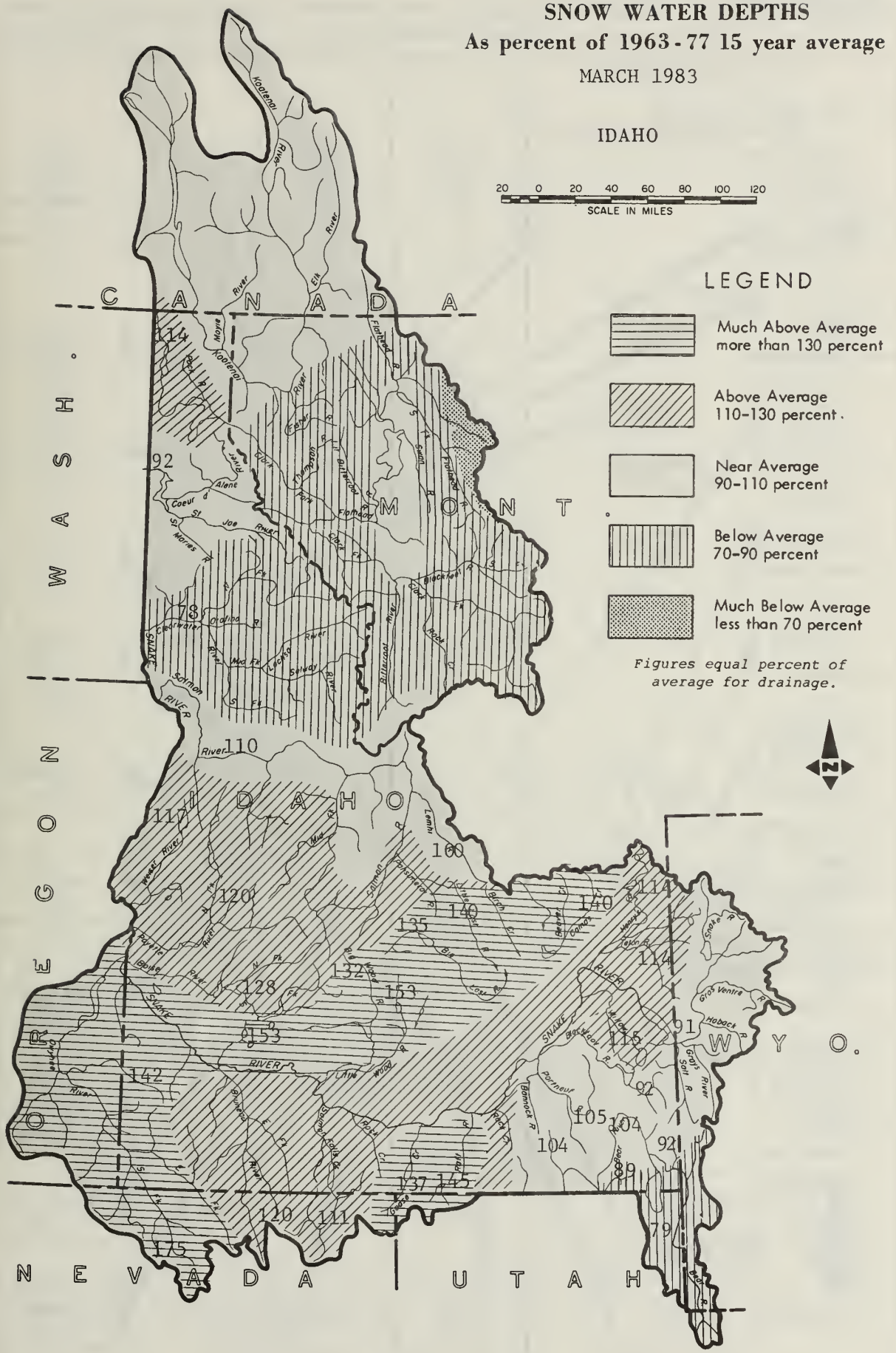
MARCH 1, 1983



254

COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	45	84	89
Pend Oreille River	137	78	83
Clark Fork River	92	74	81
Flathead River	45	84	85
Priest River	6 - 7	104	114
Spokane River	12 - 14	95	92
Hayden Creek	4	80	--
LOWER SNAKE RIVER BASIN			
Palouse River	3	74	80
Clearwater River	15 - 17	75	78
Salmon River	20 - 24	94	110
Lemhi River	6	78	100
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	126	140
Big Lost River	8	140	138
Fish Creek	2	159	153
Little Wood River	4	155	153
Big Wood River	11 - 12	107	132
Boise River	17 - 20	105	128
Canyon Creek	3	104	153
Payette River	14 - 17	106	120
Weiser River	2 - 4	110	117
Mann Creek	1	131	--
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	5 - 7	121	145
Goose-Trapper Creek	3 - 5	114	137
Salmon Falls Creek	10 - 11	90	111
Bruneau River	5	88	120
Owyhee River	6	121	175
Jordan Creek	3	108	142
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	31	73	91
Camas-Beaver Creeks	2	155	140
Henrys Fork River	11	98	114
Teton River	9	85	114
Willow Creek	5 - 9	85	115
Blackfoot River	3 - 7	78	92
Portneuf River	4 - 11	72	105
GREAT BASIN			
Bear River - Upper	4	68	79
Bear River - Lower	21	76	95
Montpelier Creek	6	68	92
Mink Creek	7	81	104
Cub River	3 - 4	84	89
Malad River	4 - 6	97	104


SNOW WATER DEPTHS
As percent of 1963-77 15 year average
MARCH 1983
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Much Above Average more than 130 percent
Above Average 110-130 percent.
Near Average 90-110 percent
Below Average 70-90 percent
Much Below Average less than 70 percent
Figures equal percent of average for drainage.
CANADA
MONTANA
WASHINGTON
OREGON
IDAHO
WYO.
NEVADA
UTAH
Kootenai River
Moyie River
Elk River
Priest River
Pend Oreille River
Coeur d Alene
St Joe River
Clearwater
Orofino
Selway River
Lochsa River
Salmon River
Weiser River
Payette River
Boise River
Owyhee River
Bruneau
Snake River
Portneuf
Blackfoot
Teton
Gros Ventre
Hoback
Grays
Bear
114
92
110
111
120
128
153
142
145
135
140
132
137
100
105
104
91
89
79

RESERVOIR STORAGE (1,000 Ac. Ft.)

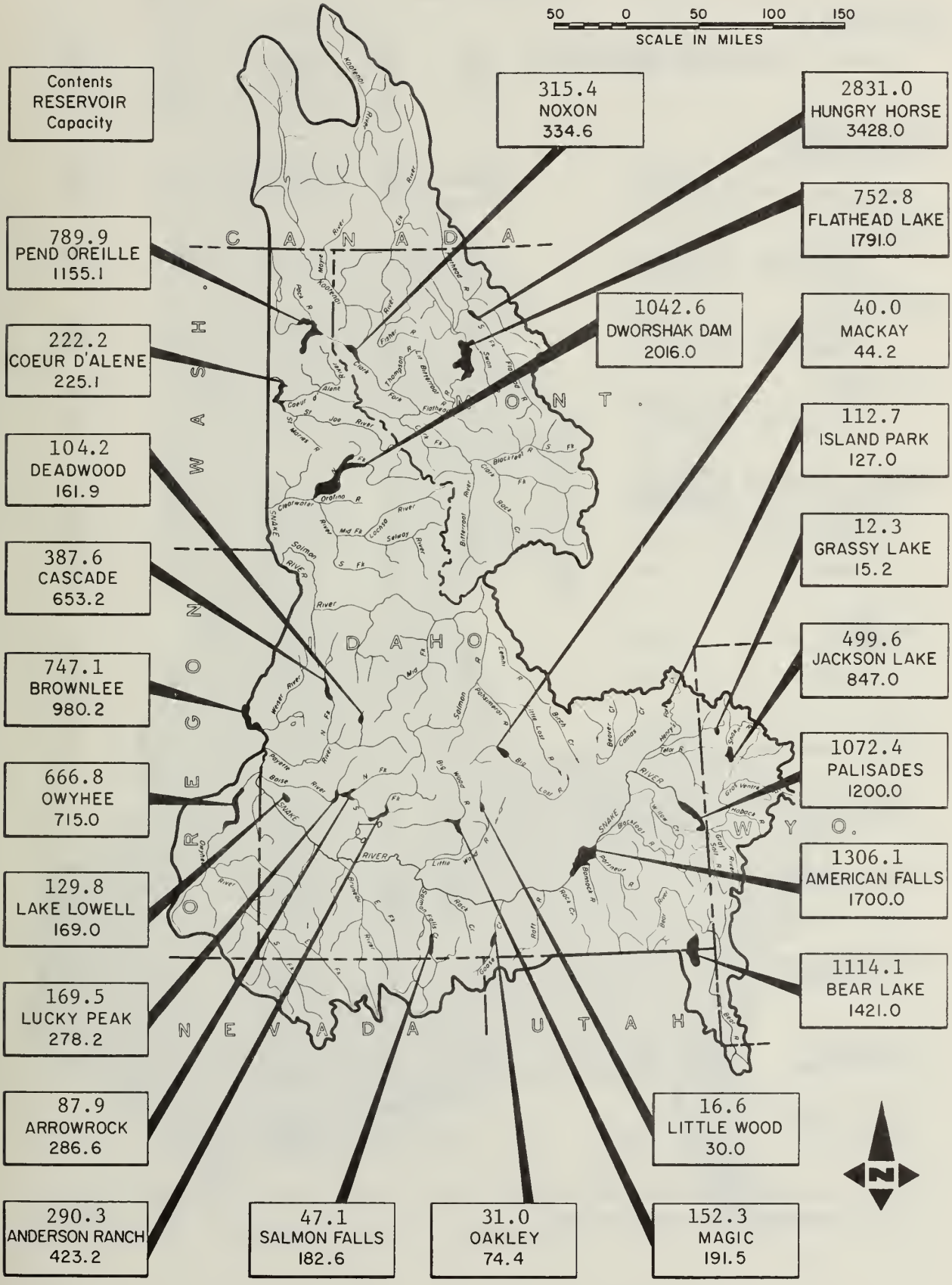
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2831.0	2327.0	2200.0
Flathead	1791.0	752.8	744.4	994.6
Pend Oreille	1155.1	789.9	805.5	376.0
Noxon	334.6	315.4	310.9	299.1
Spokane				
Coeur d'Alene	225.1	222.2	433.1	121.6
SNAKE BASIN				
Snake				
Jackson Lake	624.4	499.6	517.9	615.6
Palisades	1200.0	1072.4	686.5	903.6
American Falls	1673.0	1306.1	1232.7	1241.9
Island Park	127.0	112.7	106.9	114.6
Grassy Lake	15.2	12.3	12.8	10.6
Brownlee	980.2	747.1	905.4	465.2
Goose-Trapper Creeks				
Oakley	74.4	31.0	29.0	29.3
Salmon Falls Creek				
Salmon Falls	182.6	47.1	23.7	55.5
Big Lost				
Mackay	44.2	40.0	27.5	32.4
Big Wood				
Magic	191.5	152.3	74.0	113.9
Little Wood				
Little Wood	30.0	16.6	16.6	17.8
Fish Creek				
Carey Valley	14.4	9.5	5.7	--
Boise				
Anderson Ranch	423.2	290.3	264.3	256.5
Arrowrock	286.6	87.9	215.0	251.4
Lucky Peak	278.2	169.5	115.2	87.1
Lake Lowell (Deer Flat)	169.0	129.8	107.4	132.6
Owyhee				
Owyhee	715.0	666.8	679.4	491.3
Payette				
Cascade	653.2	387.6	436.3	338.8
Deadwood	161.9	104.2	91.9	85.9
Weiser				
Mann Creek	11.1	8.4	9.4	--
Clearwater				
Dworshak	2016.0	1042.6	865.9	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1114.1	913.2	1030.6

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1983



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8354	94	Apr-Sep	--	8858
		7260	94	Apr-Jul	--	7708
		5780	94	Apr-Jun	--	6144
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	11100	81	Apr-Sep	--	13781
		10100	81	Apr-Jul	--	12519
		8610	81	Apr-Jun	--	10633
Priest River						
Priest River 1/	(at)	1000	112	Apr-Sep	--	895
		940	112	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	2780	96	Apr-Sep	--	2910
		2672	95	Apr-Jul	--	2802
St. Joe River						
Calder	(at)	1210	92	Apr-Sep	--	1309
		1148	93	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	850	94	Apr-Sep	--	903
Palisades Inflow 3/		3608	93	Apr-Sep	--	3863
Heise 4/	(nr)	3900	92	Apr-Sep	--	4247
		3245	92	Apr-Jul	--	3527
Blackfoot 5/	(nr)	5380	96	Apr-Sep	--	5612
		4380	96	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	810	110	Apr-Sep	--	737
		608	111	Apr-Jul	--	547
Rexburg 7/	(nr)	1687	110	Apr-Sep	--	1534
		1340	110	Apr-Jul	--	1202
Teton						
South Leigh Creek	(ab)	221	110	Apr-Sep	--	201
		166	111	Apr-Jul	--	150
Portneuf River						
Topaz	(at)	102	94	Mar-Sep	--	108
		83	94	Mar-Jul	--	88
Oakley Reservoir Inflow		39.5	127	Apr-Sep	--	31
		36	128	Apr-Jul	--	28
		45	125	Mar-Sep	--	36
		41	127	Mar-Jul	--	33
Salmon Falls Creek						
San Jacinto	(nr)	110	116	Mar-Sep	--	95
		105	117	Mar-Jul	--	90
		99.5	117	Mar-Jun	--	85
Bruneau River						
Hot Springs	(nr)	304	121	Mar-Sep	--	251
		290	122	Mar-Jul	--	238
Little Lost River						
Howe	(nr)	52.5	117	Apr-Sep	--	45
		40	118	Apr-Jul	--	34

(c) Assuming normal meteorological conditions.

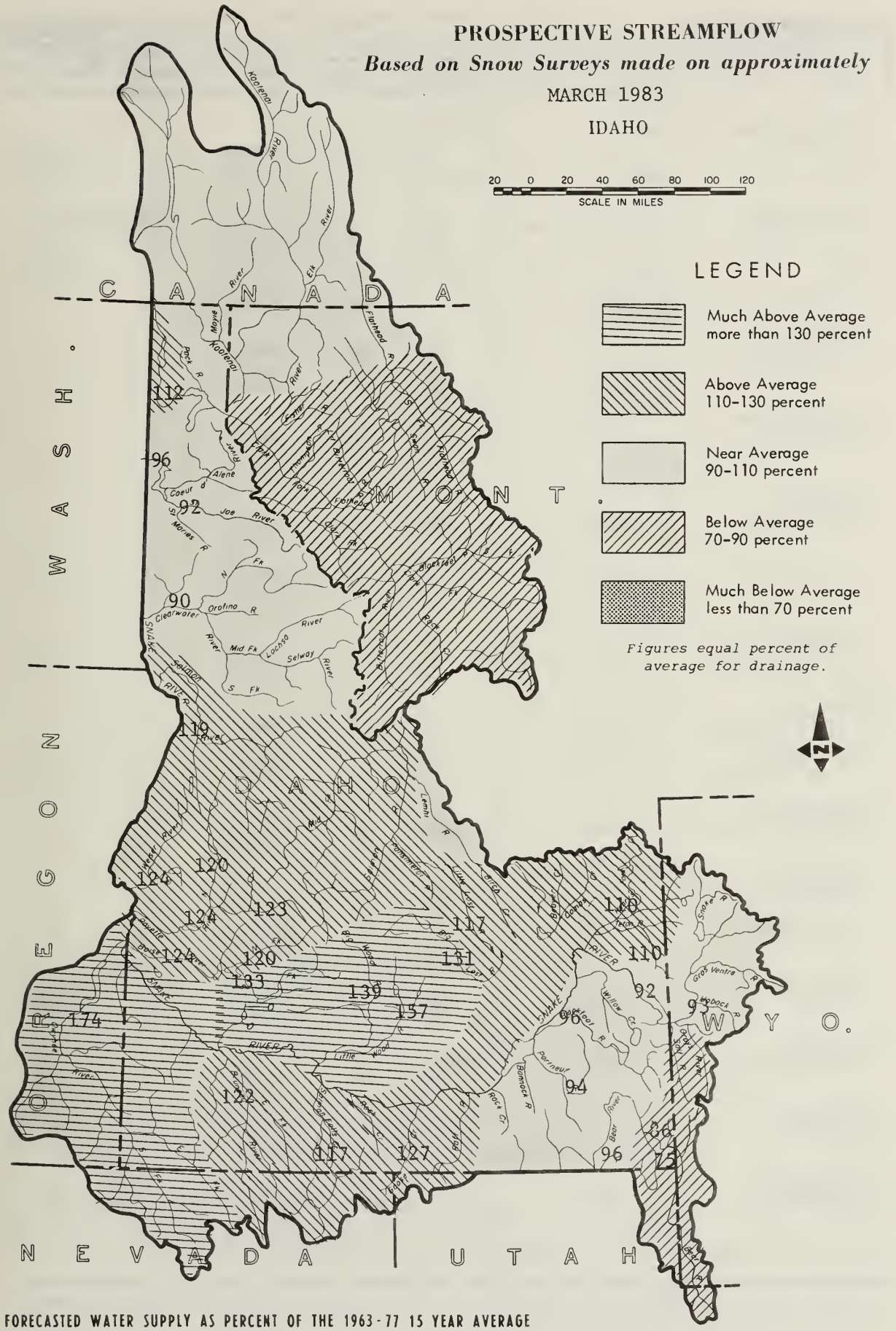
+ 1963-1977 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MARCH 1983

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Little Lost River (Continued)						
Wet Creek	(bl)	48	117	Apr-Sep	--	41
		39	118	Apr-Jul	--	33
		31	119	Apr-Jun	--	26
Big Lost River						
Howell Ranch	(at)	295	131	Apr-Sep	--	225
		263	132	Apr-Jul	--	199
		205	133	Apr-Jun	--	154
Mackay 8/	(nr)	268	131	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		443	139	Apr-Sep	--	319
Inflow 9/		429	142	Apr-Jul	--	303
		470	142	Mar-Jul	--	332
Little Wood River						
Carey 10/	(nr)	167	156	Apr-Sep	--	107
		155	157	Apr-Jul	--	99
		137	157	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	880	120	Apr-Sep	--	733
		812	120	Apr-Jul	--	676
Boise 11/	(nr)	2050	124	Apr-Sep	--	1656
		1900	124	Apr-Jul	--	1536
		1686	124	Apr-Jun	--	1360
South Fork						
Anderson Dam 12/	(at)	823	133	Apr-Sep	--	622
		771	132	Apr-Jul	--	582
Owyhee River						
Gold Cr., Nv 13/	(nr)	30	130	Apr-Jul	--	23
Owyhee, Nv 13/	(nr)	110	137	Apr-Jul	--	80
Lake Owyhee		683	174	Apr-Sep	--	392
net inflow 14/		818	160	Mar-Jul	--	510
Payette River						
Horseshoe Bend 15/	(nr)	2300	124	Apr-Sep	--	1860
		2130	124	Apr-Jul	--	1721
North Fork						
Cascade 16/	(at)	676	120	Apr-Sep	--	564
		634	120	Apr-Jul	--	529
Banks 16/	(nr)	871	121	Apr-Sep	--	726
		831	121	Apr-Jul	--	687
South Fork						
Lowman	(at)	634	123	Apr-Sep	--	516
		563	123	Apr-Jul	--	458
Weiser River						
Weiser	(nr)	513	124	Apr-Sep	--	442
		692	124	Mar-Sep	--	558
Salmon River						
Whitebird	(at)	8530	119	Apr-Sep	--	7196
		7710	119	Apr-Jul	--	6497
Clearwater River						
Spalding	(at)	9750	90	Apr-Sep	--	8672

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
GREAT BASIN						
BEAR RIVER						
Harer	(at)	248	75	Apr-Sep	--	332
Montpelier Creek						
Montpelier	(nr)	12	86	Apr-Sep	--	13.9
Cub River						
Preston	(nr)	48	96	Apr-Sep	--	50
		44	94	Apr-Jul	--	47

1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake.
3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades.
5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
6/ Corrected for storage in Henrys' Lake and Island Park Reservoir.
7/ Corrected for storage in Henrys' Lake and Island Park, Grassy Lake and diversions between Ashton and Rexburg.
8/ Observed flow corrected for storage in Mackay Reservoir.
9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
10/ Corrected for storage in Little Wood Reservoir.
11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
12/ Corrected for storage in Anderson Ranch Reservoir.
13/ Corrected for storage in Wildhorse Reservoir.
14/ From Bureau of Reclamation records of inflow.
15/ Corrected for storage in Cascade and Deadwood Reservoirs.
16/ Corrected for storage in Cascade Reservoir.
Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) *Assuming normal meteorological conditions.*

+ 1963-1977 period.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME & DRAINAGE		Elevation				Last Year	Average
Above Burke	Coeur d'Alene	4100	2/28	40	15.4	18.1	22.9*
Above Gilmore	Lemhi	8240	3/3	35	7.5	9.8	8.2
Allen Ranch	Blackfoot	6470	2/28	35	9.3	11.5	--
Antelope Ridge	Owyhee	6180	2/24	28	9.0	10.8	6.9*
Aspen Grove	Willow	6500	3/3	51	17.0	16.6	10.7*
Aspen Hall Pass	Lemhi	8200	3/3	35	8.2	11.8	8.5*
Atlanta Summit	Boise	7600	2/28	112	36.9	38.3	31.2*
Atlanta Townsite	Boise	5370	3/3	40	13.0	12.6	--
Austin Bros. Ranch	Blackfoot	6400	2/28	30	8.1	10.0	8.3
Bad Bear	Boise	4940	2/28	43	14.5	15.9	13.5
Badger Gulch	Trapper	6660	3/6	36	16.2	16.6	10.7
Banner Summit	Payette	7040	2/28	92	30.4	27.1	--
Beagle Springs (Mt)	Beaverhead	8850	2/26	31	7.0	--	--
Bear Basin	Little Salmon	5350	2/28	72	22.6	17.0	--
Bear Canyon	Big Lost	7900	3/3	87	22.9	16.8	15.9
Bear Creek (Nv)	Jarbidge	8040	3/6	65	21.8	23.0	18.0*
Bear Mountain	Clark Fork	5400	2/25	140	59.7	61.8	53.7*
Bear Saddle	Mann Creek	6180	3/2	87	32.8	25.0	--
Beaverdam Creek	Portneuf	6120	2/26	29	6.7	11.6	--
Bennett Mountain	Canyon Creek	6560	2/26	62	20.4	19.4	15.0*
Benton Meadow	Priest	2370	2/25	10	2.5	7.4	6.4
Benton Spring	Priest	4920	2/25	53	19.3	15.8	17.7
Big Creek Summit	Salmon	6580	2/24	108	36.7	40.2	31.6
Big Springs	Henrys Fork	6400	2/25	60	19.4	20.2	18.7
Birch Creek	Willow	6800	3/3	27	8.4	13.7	10.7*
Black Bear (Mt)	Madison	7950	2/24	103	39.7	--	--
Black Canyon	Henrys Fork	7960	2/24	91	31.8	36.6	29.9*
Black Moose	Henrys Fork	8160	2/24	106	40.4	40.2	36.1*
Blue Ridge	Blackfoot	6780	3/3	59	21.5	24.3	--
Bogus Basin	Payette	6340	2/28	90	31.0	22.5	20.7
Bogus Basin Road	Boise	5540	2/28	29	9.5	7.6	5.8
Bone	Willow	6200	3/3	26	7.4	8.6	7.4*
Borah (A)	Pahsimeroi	8250	3/3	16	5.1	5.0	--
Bostetter Ranger Sta.	Trapper	7500	3/6	52	21.2	23.8	17.1
Boulder Creek	Weiser	5440	2/28	73	25.0	24.2	21.8
Boy Scout Camp	Raft	7740	3/6	56	23.4	13.9	12.8
Breezy Saddle	Clearwater	5010	3/1	76	23.4	25.1	--
Brockman Station	Willow	6430	3/3	32	10.3	13.6	--
Brundage Mountain	Little Salmon	7560	2/28	107	40.1	51.0	40.6*
Bruno Creek	Squaw Creek	7920	2/28	58	17.7	23.5	--
Camas Creek Divide	Big Wood	5710	2/27	53	18.0	15.3	10.0*
Camp Creek	Beaver	6580	3/1	52	14.0	8.1	9.8
Cayuse Airstrip	Clearwater	3500	3/1	24	6.4	10.5	12.0
Cedar Creek	Cedar	6820	3/4	24	6.1	9.2	9.3
Chilco Ridge	Hayden	3650	2/24	5	1.8	5.6	--
Chimney Creek	Big Wood	6400	2/26	61	21.4	16.9	--
Christensen RAnch	Mink	5560	2/23	32	9.2	9.5	7.9
Clear Creek Meadows	Raft	9420	3/6	84	26.8	23.0	19.1
Cliff Canyon	Malad	7200	2/23	52	19.2	10.0	--
Conie Ridge	Hayden	3900	2/24	10	3.4	6.7	--
Copes Camp	Lemhi	7520	3/3	27	6.4	9.2	6.6
Copper Basin	Big Lost	7640	3/3	54	14.4	7.5	8.4
Copper Ridge	Coeur d'Alene	4820	2/25	61	25.6	25.2	25.1
Corner Creek	Hayden	3150	2/24	13	3.7	1.6	--
Couch Summit	Boise	6840	2/26	72	23.4	18.4	16.9*
Cozy Cove	Deadwood	5380	2/28	60	17.3	14.6	15.2*
Crater Meadows	Clearwater	5960	3/1	97	30.4	39.0	38.9
Crawford Ranger Sta.	Payette	4860	2/26	27	9.6	7.5	7.7
Crooked Fork	Lochsa	3610	3/1	30	9.8	13.5	12.7*
Cub River Ranger Sta.	Cub	5450	2/23	28	8.3	8.4	8.4
Daniels Creek	Malad	6270	2/23	28	7.3	7.1	--
Darby Canyon (Wy)	Teton	8250	3/3	68	22.1	24.2	19.8*
Deadline	Salmon Falls	7400	3/4	59	21.5	21.8	18.8
Deadline South	Salmon Falls	7450	3/4	66	23.8	23.6	--
Deadman Gulch	Boise	5600	2/23	62	20.5	19.2	14.7*
Deadwood Airstrip	Deadwood	5360	2/28	62	17.4	14.1	14.4
Dempsey Creek	Portneuf	6100	2/26	42	11.2	15.1	11.0
Double Springs Pass	Pahsimeroi	8380	3/3	38	9.4	11.9	8.7*
Dry Basin	Mink	7820	2/23	72	24.8	29.5	24.2*
Dry Creek Flat	Malad	6360	2/23	27	8.3	9.3	7.4
Dry Fork	Big Lost	7220	3/7	54	19.4	15.2	14.6*
East Creek	Portneuf	7000	2/26	37	10.1	18.0	--
East Twin	Palouse	4130	2/24	19	6.7	11.8	10.8

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
NAME & DRAINAGE			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
						Last Year	Average
Elk Butte	Clearwater	5550	3/1	86	25.0	31.7	34.7
Emigrant Summit	Bear	7390	3/1	70	22.4	29.4	21.7
Emigration Canyon	Bear	6500	3/1	38	10.7	11.4	9.7
Fairview Guard Sta.	Little Lost	6750	3/3	26	7.4	5.7	4.2
Fish Lake Airstrip	Lochsa	5650	3/1	86	25.0	36.3	36.3
Forty-nine Meadows	Clearwater	4830	3/1	71	22.0	23.8	27.2
Fourth of July Summit	Coeur d'Alene	3200	2/28	17	5.4	6.4	8.9
Fox Creek (Nv)	Jarbidge	6750	3/4	36	11.6	12.5	9.7
Franklin Basin	Cub	8040	2/23	56	18.8	26.2	22.7
Freds Mountain (Wy)	Teton	8150	2/28	74	22.4	28.1	16.9*
Galena	Big Wood	7440	2/28	71	20.6	22.6	17.0
Galena (new)	Big Wood	7470	2/28	78	22.4	--	--
Galena Summit	Big Wood	8780	2/28	83	24.8	26.9	20.6
Garfield Ranger Sta.	Little Wood	6560	3/2	59	15.5	8.7	9.8
Garns Mountain	Teton	8300	3/3	95	35.9	--	27.4*
George Creek (Ut)	Raft	8840	3/6	76	23.6	23.7	--
George Peak (Ut)	Raft	9000	3/6	88	32.5	31.8	--
Gibbons Pass (Mt)	Bitterroot	7100	2/28	66	21.3	26.8	21.2
Giveout	Montpelier	6860	3/2	37	9.7	14.9	11.1
Goat Creek (Nv)	Salmon Falls	8880	3/4	58	17.5	21.3	15.7
Graham Guard Sta.	Boise	5690	2/28	54	17.2	17.9	--
Graham Ranch	Big Wood	6270	2/28	61	16.9	13.8	12.8
Grassy Lake (Wy)	Henrys Fork	7265	2/28	96	31.0	39.1	30.6
Hall Creek	Lemhi	7560	3/3	16	4.0	6.6	4.8*
Hemlock Butte	Clearwater	5810	3/1	106	34.6	43.4	43.6*
Hoodoo Basin (Mt)	Clark Fork	6000	2/26	111	40.4	49.9	45.4*
Hoodoo Creek (Mt)	Clark Fork	5900	2/26	105	36.6	47.5	42.0*
Horseshoe Basin	Bear	8000	2/23	66	23.3	27.5	22.0*
Howell Canyon	Marsh Creek	7980	3/6	72	30.4	35.7	22.1
Humboldt Gulch	Coeur d'Alene	4250	2/28	34	12.8	13.6	--
Hummingbird Springs (Nv)	Jarbidge	8870	3/4	76	23.2	27.4	19.5
Idaho City Townsite	Boise	4000	2/28	17	6.1	8.8	--
Indian Grove	Raft	7560	3/6	40	16.5	9.7	--
Indian Meadows	Teton	8240	3/3	111	41.6	44.4	30.9*
Iron Bog	Big Lost	7650	3/7	60	18.8	11.0	12.8*
Iron Mine Creek	Fish Creek	6300	3/1	55	14.7	9.7	9.9
Irving Creek	Medicine Lodge	7035	3/3	30	7.4	3.9	5.2*
Island Park	Henrys Fork	6290	2/25	57	18.3	16.7	15.1
Jackpine Creek	Teton	7350	3/3	68	23.0	23.2	19.6*
Jackson Peak	Boise	7070	2/28	94	33.0	30.8	27.3
Johnson Creek	Blackfoot	6730	2/28	39	10.8	13.1	--
Kellogg Peak (A)	Coeur d'Alene	5560	2/27	66	25.7	27.3	28.2*
Kilgore	Camas Creek	6320	2/28	52	14.6	10.4	10.6
Kit Carson Pasture	Selway	4950	2/24	22	5.2	11.7	--
Lake Fork	Payette	5290	2/25	51	16.3	14.8	14.6
Langford Flat Creek	Salmon Falls	5980	3/4	18	5.0	6.6	--
Latham Springs	Henrys Fork	7630	2/24	87	31.2	34.0	28.6
Lava Creek	Willow	7350	3/3	51	16.9	20.8	--
Leadbelt	Big Lost	6700	3/7	45	14.4	6.4	8.6
Leatherman Pass	Pahsimeroi	9860	3/3	71	23.3	20.3	20.2*
Lemhi Pass (Mt)	Beaverhead	7480	2/26	26	5.2	8.8	8.1
Lemhi Ridge (Mt)	Beaverhead	8100	2/26	31	6.4	10.8	8.9*
Liberty Spring	Mink	8600	2/23	89	32.5	46.9	32.7
Little Beaver	Montpelier	6970	3/2	44	12.4	18.5	14.0
Little Camas Flat	Boise	4940	2/26	27	8.9	10.9	5.9*
Logger Springs	Raft	8120	3/6	57	22.6	15.8	--
Lolo Pass	Lochsa	5240	3/1	59	19.1	31.8	27.5
Lookout	Coeur d'Alene	5140	2/28	80	29.0	30.6	31.0
Lost Garfield	Little Lost	6600	3/3	22	6.0	4.8	3.7
Lost Horse (Mt)	Bitterroot	5940	2/25	68	24.0	--	--
Lost Lake	Clearwater	6110	3/1	132	41.4	49.7	50.0*
Lost-Wood Divide	Big Lost	7900	3/3	88	26.1	23.1	20.4*
Lower Elkhorn	Portneuf	6960	2/23	43	13.2	18.1	12.7*
Lower Home Canyon	Montpelier	7640	3/1	39	10.2	15.5	12.2*
Lower Pebble	Portneuf	5780	2/26	42	11.1	19.5	12.3*
Lower Sands Creek	Coeur d'Alene	3120	2/28	44	17.0	15.2	17.5*
Lucky Dog	Henrys Fork	6860	2/24	76	24.4	27.8	22.1
Magic Mountain	Rock Creek	6880	3/4	52	16.9	22.2	16.4
Mascot Mine	Big Wood	7780	3/5	72	20.0	14.8	13.1
McRenolds Reservoir	Teton	6720	3/3	57	18.6	18.5	17.4*
Meadow Lake	Lemhi	9150	3/3	60	18.0	17.8	16.5
Mill Creek Summit	Salmon	8800	3/3	69	21.9	26.5	20.3
Mink Creek	Portneuf	6410	2/27	59	19.1	24.6	15.5

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average
Montpelier Creek	Montpelier	6540	3/2	26	7.7	10.0	7.5
Moonshine	Little Lost	7440	3/3	44	11.8	10.1	9.3
Moores Creek Summit	Boise	6100	2/28	100	35.4	31.5	28.6
Moose Creek	N.F. Salmon	6200	2/25	54	16.8	19.8	15.6
Morgan Creek	Salmon	7600	3/3	47	13.4	14.7	12.8
Moscow Mountain	Palouse	4410	2/24	48	15.6	16.8	15.6
Mosquito Ridge	Coeur d'Alene	5200	2/27	115	40.4	38.3	34.6
Mount Baldy	Big Wood	8920	2/25	75	22.5	23.2	18.4
Mud Creek	Willow	7100	3/3	69	21.5	23.6	--
Mud Flat	Owyhee	5730	2/24	27	7.2	9.0	6.0*
Muldoon	Little Wood	6320	3/2	45	11.8	5.1	7.6
Nez Perce Pass (Mt)	Bitterroot	6570	2/24	38	11.7	19.5	15.7
One Mile Summit	Raft	7330	3/6	24	6.2	4.3	6.1
Oxford Mountain	Malad	6800	2/23	30	8.4	11.6	9.4
Oxford Spring	Malad	6740	2/23	34	9.5	12.8	--
Packsaddle Spring	Teton	8200	3/3	83	29.5	32.7	--
Pebble Creek	Portneuf	6550	2/26	51	14.5	18.5	14.5
Phillips Bench (Wy)	Teton	8200	2/28	81	23.3	34.7	23.2*
Pierce Ranger Sta.	Clearwater	3080	2/24	19	6.0	11.7	10.9
Pine Creek Pass	Teton	6810	2/28	50	14.7	20.0	15.6
Placer Creek	Weiser	5860	3/2	62	20.0	18.8	16.5
Pole Creek Ranger Sta.	Jarbidge	8360	3/4	62	20.0	23.2	18.6
Prairie	Boise	4800	2/27	18	6.1	7.0	5.8
Redfish Lake Flat	Salmon	6560	2/28	47	13.0	13.4	8.9*
Road Creek	Boise	5380	2/28	30	9.6	--	10.4*
Rock Flat Summit	Payette	5310	2/28	67	21.8	16.2	16.7
Roland Summit	St. Joe	5120	2/27	71	31.5	30.0	31.3
Sage Creek Saddle	Hayden	4080	2/24	43	16.1	17.2	--
Savage Pass	Lochsa	6170	3/1	60	19.6	29.0	24.1
Sawmill Canyon	Little Lost	7000	3/3	33	9.8	8.4	6.9
Sawtell Mountain	Henrys Fork	8720	2/25	97	36.6	33.6	28.4*
Schwartz Lake	Lemhi	8540	3/3	40	11.2	15.9	10.8*
Schweitzer Basin	Pend Oreille	6090	3/1	131	49.8	46.9	--
Schweitzer Bowl	Pend Oreille	4800	3/1	90	34.5	31.2	28.1*
Schweitzer Ridge	Pend Oreille	6200	3/1	123	49.0	44.6	40.3*
Secesh Summit	Payette	6520	2/25	101	36.1	41.2	30.9*
Sedgwick Peak	Portneuf	7850	2/26	49	16.2	24.6	--
Seventy-Six Creek	Jarbidge-Bruneau	7100	3/4	45	14.5	17.5	10.4
Shanghai Summit	Clearwater	4570	3/1	58	18.0	23.8	24.1
Sheep Mountain	Willow	6570	3/3	45	14.5	16.0	12.5*
Sherwin	St. Maries	3200	2/23	27	8.4	14.2	13.3
Shoshone Basin	Salmon Falls	5810	3/4	16	5.6	5.9	5.3
Silver City	Jordan-Owyhee	6400	2/26	53	18.4	16.8	13.7
Skitwish Ridge	Coeur d'Alene	5110	2/25	73	30.6	28.5	--
Slug Creek Divide	Blackfoot	7230	3/1	44	12.8	17.3	14.8
Soldier Ranger Sta.	Big Wood	5740	2/26	55	17.8	12.5	11.5
Somsen Ranch	Willow Creek	6840	2/28	44	12.0	16.3	12.7
South Mountain	Jordan-Owyhee	6500	2/26	54	18.9	15.4	11.6
Squaw Flat	Weiser	6240	2/25	81	28.1	22.5	--
Squaw Meadow	Payette	5900	2/25	96	37.9	39.6	31.9
State Line	Teton	6660	2/28	46	13.2	14.4	12.7
Stickney Mill	Big Lost	7430	3/3	49	11.8	7.6	8.3
Strawberry Creek	Mink	5820	3/1	33	11.5	10.9	9.6
Strawberry Mink Divide	Mink	6720	2/23	56	18.4	21.0	18.7
Sublett	Raft	5950	3/6	33	14.6	14.0	10.1
Sulphur Peak	Blackfoot	7070	2/28	43	12.8	15.3	--
Sunset (A)	Coeur d'Alene	5540	2/27	101	35.5	39.1	32.6*
Swede Peak	Little Wood	7640	3/2	86	23.7	17.2	15.2
Targhee Pass	Henrys Fork	6980	2/25	47	14.4	10.7	13.6*
Telfer Ranch	Fish Creek	5840	3/1	43	12.3	7.3	7.8
Teton Pass W.S. (Wy)	Teton	7740	3/2	79	23.7	29.6	21.0*
Tex Creek	Willow	6650	3/3	33	10.1	11.5	8.5*
Trail Creek (Mt)	Beaverhead	7090	2/26	25	4.3	--	--
Trinity Mountain	Boise	7770	3/3	129	45.6	45.3	38.2
Tripod Summit	Payette	5260	2/26	67	22.1	18.7	16.7
Twelve Mile Creek (Mt)	Bitterroot	5600	2/25	49	16.8	--	--
Twin Peaks	Salmon	9190	3/3	69	21.6	23.6	23.0*
Twin Lakes (Mt)	Bitterroot	6510	2/25	82	29.6	--	--
Twitchell Canyon	Blackfoot	6300	3/1	51	15.0	15.8	--
Upper Elkhorn	Portneuf	7140	2/23	54	17.8	20.3	16.4*
Upper Home Canyon	Montpelier	8560	3/2	63	19.1	28.1	19.9
Valley View	Henrys Fork	6680	2/25	48	16.0	14.6	15.6
Vi Pont	Goose	7670	3/6	47	18.4	17.3	12.9*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average
Vienna Mine	Salmon	8960	3/3	111	36.0	42.7	32.1
Webber Creek	Medicine Lodge	6700	3/3	23	5.6	4.4	--
West Branch	Weiser	5560	2/28	80	26.4	25.0	--
West Twin	Palouse	4220	2/24	16	6.2	9.8	9.4
Wet Creek Summit	Little Lost	7680	2/27	42	13.7	9.7	10.7
Whiskey Flat	Montpelier	6960	3/2	32	8.6	12.6	8.5
White Elephant	Henrys Fork	7710	2/25	69	23.6	25.3	18.4*
Wildhorse Divide	Portneuf	6490	2/27	58	19.8	23.2	--
Williams Creek Summit	Salmon	7990	3/2	35	9.8	11.6	11.1
Willow Flat	Cub	6070	2/23	42	12.9	14.9	13.9
Wilson Creek (Nv)	Salmon Falls	7500	3/4	43	14.0	13.0	11.0
Wood Canyon Divide	Blackfoot	7450	2/28	46	14.3	19.7	--
Worm Creek	Cub	6620	2/23	49	16.0	16.9	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOTEL[1/]

Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulative) (inches)
Atlanta Summit	Boise	3/1	30.8	37.0
Banner Summit	Payette	3/1	27.9	31.4
Bear Basin	Little Salmon	3/1	23.8	27.2
Bear Canyon	Big Lost	3/1	19.2	24.6
Bear Mountain	Clark Fork	3/1	Not Available	65.4
Bear Saddle	Mann Creek	3/1	32.5	29.2
Bennett Mountain	Canyon Creek	3/1	24.4	23.3
Big Creek Summit	Salmon	3/1	34.8	25.7
Bostetter Ranger Sta.	Trapper	3/1	27.1	11.6
Cozy Cove	Deadwood	3/1	23.6	26.6
Crab Creek	Camas-Beaver	3/1	22.1	20.8
Deadwood Summit	Deadwood	3/1	52.4	47.2
Dollarhide Summit	Big Wood	3/1	28.1	30.8
Elk Butte	Clearwater	3/1	33.5	36.4
Emigrant Summit	Bear	3/1	25.5	22.9
Franklin Basin	Cub	3/1	20.9	22.3
Galena	Big Wood	3/1	20.4	20.7
Galena Summit	Big Wood	3/1	20.3	23.0
Garfield Ranger Sta.	Little Wood	3/1	16.2	17.5
Giveout	Montpelier	3/1	10.4	9.1
Graham Guard Sta.	Boise	3/1	20.4	24.1
Hilts Creek	Little Lost	3/1	15.2	14.7
Howell Canyon	Marsh Creek	3/1	23.2	25.5
Humboldt Gulch	Coeur d'Alene	3/1	11.5	33.5
Hyndman	Big Wood	3/1	16.3	18.1
Island Park	Henrys Fork	3/1	17.9	20.9
Jackson Peak	Boise	3/1	31.7	34.9
Lolo Pass	Lochsa	3/1	20.8	28.5
Lookout	Coeur d'Alene	3/1	28.9	35.5
Lost Lake	Clearwater	3/1	51.9	49.4
Lost-Wood Divide	Big Lost	3/1	24.4	31.2
Magic Mountain	Rock Creek	3/1	19.5	19.8
Meadow Lake	Lemhi	3/1	17.1	16.2
Mill Creek Summit	Salmon	3/1	18.7	19.3
Moonshine	Little Lost	3/1	11.7	13.2
Moores Creek Summit	Boise	3/1	38.0	35.2
Moose Creek	North Fork Salmon	3/1	17.1	17.9
Morgan Creek	Salmon	3/1	13.8	14.9
Mosquito Ridge	Coeur d'Alene	3/1	37.7	41.1
Mountain Meadows	Selway	3/1	13.3	17.9
Mud Flat	Owyhee	3/1	Not Available	Not Available
Oxford Spring	Malad	3/1	10.7	16.0
Prairie	Boise	3/1	Not Available	14.9
Savage Pass	Lochsa	3/1	20.7	23.6
Schweitzer Basin	Pend Oreille	3/1	59.3	35.9
Secesh Summit	Payette	3/1	39.3	37.5
Shanghai Summit	Clearwater	3/1	23.1	31.6
Sheep Mountain	Willow	3/1	Not Available	15.6
Sherwin	St. Maries	3/1	8.4	26.0
Slug Creek Divide	Blackfoot	3/1	14.7	16.0
Somsen Ranch	Willow Creek	3/1	11.5	13.2
South Mountain	Jordan-Owyhee	3/1	26.9	22.8
Squaw Flat	Weiser	3/1	27.6	32.0
Stickney Mill	Big Lost	3/1	10.5	11.3
Sunset	Coeur d'Alene	3/1	30.8	27.8
Swede Peak	Little Wood	3/1	20.6	22.3
Trinity Mountain	Boise	3/1	41.3	43.5
Vienna Mine	Salmon	3/1	35.9	35.1
West Branch	Weiser	3/1	28.4	32.0
White Elephant	Henrys Fork	3/1	27.7	31.2
Wildhorse Divide	Portneuf	3/1	11.3	15.5

[1/] Data readings as reported by automated Snotel system.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. OFFICIAL MAIL
U.S. MAIL
BOISE
IDAHO
$250327
METER

~~FIRST CLASS MAIL~~

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

551.573
Un36wi

Water Supply Outlook For Idaho

THE LIBRARY OF THE
MAY 3 1983
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES
NOAA, NATIONAL WEATHER SERVICE

AS OF
April 1, 1983

IMPORTANT NOTICE INSIDE

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK

IMPORTANT NOTICE
REVISION OF FREE MAILING LIST

IF YOU WISH TO CONTINUE to receive this publication, please turn to the back page, read the instructions, ----- TEAR OFF THE BACK COVER of this bulletin, sign your name, fold it on the heavy line, staple or tape, and ---- MAIL IMMEDIATELY.

IF THE BACK COVER IS NOT RETURNED WITHIN 30 DAYS, YOUR NAME WILL BE REMOVED FROM OUR LIST.

THIS NOTICE IS REQUIRED BY THE CONGRESSIONAL JOINT COMMITTEE ON PRINTING FOR THE ANNUAL REVISION OF FREE MAILING LISTS.

Please make any address corrections before mailing.

M7-L-22030X

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

PETER C. MEYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
PETER L. PALMER, Hydrologist
PAUL K. BROWN, JR., Electronics Technician
KATHERN G. WOOTTON, Statistical Assistant
SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR APRIL 1, 1983

In general, the April 1 snow surveys show Idaho's snowpack to be near normal to well above normal throughout the State except for the Clearwater and Spokane River drainages in northern Idaho which are only 73 percent and 81 percent of average respectively. The remainder of the State ranges from a low of 86 percent of normal on the Cub River drainage in southeastern Idaho to a high of 215 percent of average on the Owyhee River drainage in the southwestern part of the State with most basins in the Snake River drainage ranging from 99 to 154 percent of normal.

The month of March was wet and mild with the State receiving 200 percent of normal precipitation for the month. The range was from 105 percent at Salmon to 457 percent at Ketchum. For the water year, Idaho is now at 132 percent of average. Temperatures were mild, averaging 2°F. to 5°F. above normal for the month.

Soil moisture conditions remain excellent in most of the State with the lower and middle elevation zones being wet or saturated and the higher elevations being damp and unfrozen.

Reservoir carryover storages continue to be near to well above normal in most reservoirs.

The combination of good reservoir carryover storage and near to above normal snowpack conditions assures Idaho's water supplies for this season

to be good to excellent across most of the State. The exceptions are the Clearwater and Spokane River drainages which are forecast to be only 81 and 88 percent of normal respectively. Other forecasts in the State range from 90 percent of average on the Snake near Heise to 194 percent on the inflow to Magic Reservoir.

A potential for high volume flows does exist on several Idaho streams. April and May weather conditions will dictate how much if any flooding will occur. Several areas of concern are the Payette, Big Wood, Little Wood, Big Lost, Bruneau and Owyhee River drainages.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

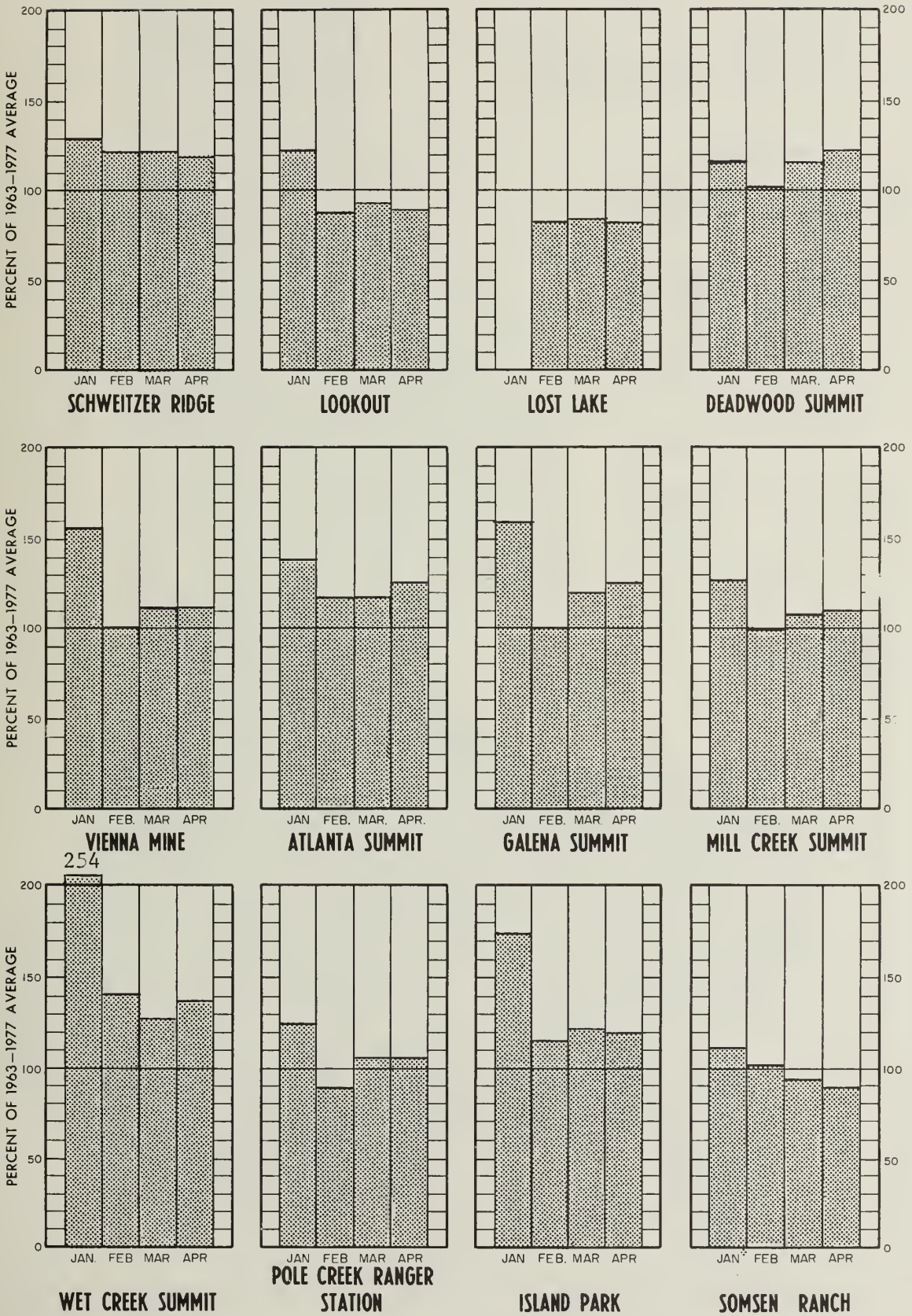
	Winter March 1983		Fall - Winter Nov. 82 - March 1983	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	2.17	+ .43	13.24	- .15
Flathead	1.73	+ 2.20	9.38	- 1.35
Clark Fork	1.26	+ .04	6.81	- 1.19
Pend Oreille-Spokane	3.48	+ .95	18.97	+ 1.42
Upper Snake	2.73	+ 1.21	11.13	+ 1.02
Snake River Plain	1.91	+ 1.13	6.17	+ 1.09
Salmon-Payette-Boise	3.96	+ 2.23	15.33	+ 3.54
Clearwater	3.04	+ .08	14.77	- 3.11
Owyhee-Malheur	2.70	+ 1.85	8.37	+ 2.70

1/ Preliminary analysis and data by the National Weather Service and Meteorlogical Service of Canada.

2/ Depaarture from 15-year (1963-77) drainage division average.

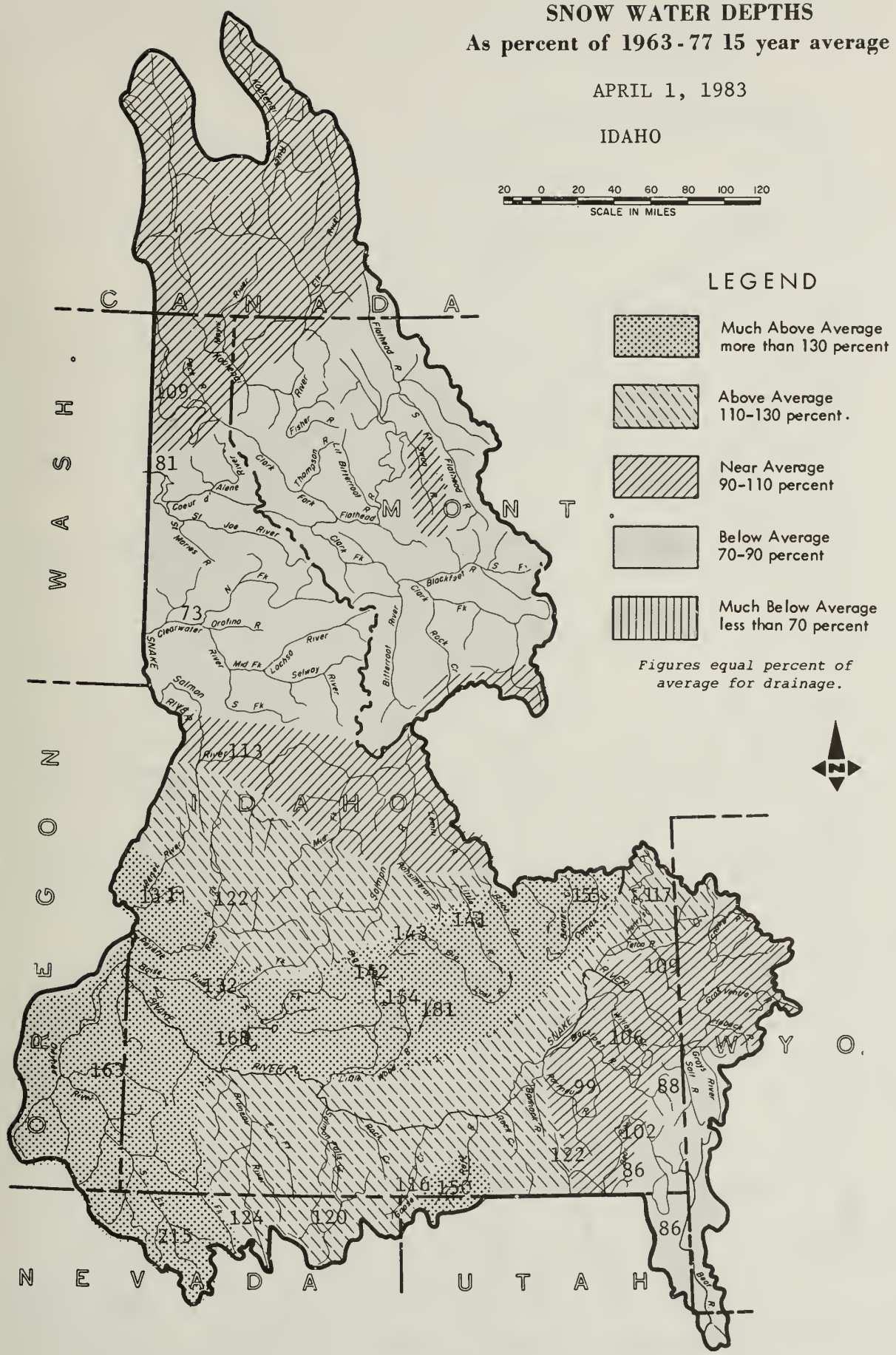
SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

APRIL 1, 1983



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	38	79	86
Pend Oreille River	136	73	82
Clark Fork River	93	68	79
Flathead River	43	81	85
Priest River	6 - 7	99	109
Spokane River	14 - 16	85	81
Hayden Creek	4	96	--
LOWER SNAKE RIVER BASIN			
Palouse River	3	42	43
Clearwater River	20 - 22	69	73
Salmon River	27 - 32	91	113
Lemhi River	6	76	105
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	111	141
Big Lost River	9	117	143
Fish Creek	2	119	181
Little Wood River	4	111	154
Big Wood River	11 - 13	106	142
Boise River	17 - 21	99	132
Canyon Creek	3	107	168
Payette River	14 - 17	103	122
Weiser River	6 - 9	122	131
Mann Creek	4 - 5	127	137
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	5 - 7	107	150
Goose-Trapper Creek	3 - 5	93	116
Salmon Falls Creek	10 - 11	87	120
Bruneau River	4 - 5	82	124
Owyhee River	7	113	215
Jordan Creek	3	115	163
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	22	69	86
Camas-Beaver Creeks	3	155	155
Henrys Fork River	7 - 11	97	117
Teton River	8 - 9	82	109
Willow Creek	5 - 9	85	106
Blackfoot River	3 - 7	70	88
Portneuf River	4 - 9	69	99
GREAT BASIN			
Bear River - Upper	6	71	86
Bear River - Lower	25	70	106
Montpelier Creek	6	67	92
Mink Creek	7	74	102
Cub River	3 - 4	69	86
Malad River	4 - 7	89	122


SNOW WATER DEPTHS
As percent of 1963-77 15 year average
APRIL 1, 1983
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Much Above Average more than 130 percent
Above Average 110-130 percent.
Near Average 90-110 percent
Below Average 70-90 percent
Much Below Average less than 70 percent
Figures equal percent of average for drainage.
CANADA
MONT
WASH.
IDAHO
OREGON
WYO.
NEVADA
UTAH
109
81
73
113
131
122
143
141
155
117
109
132
142
154
181
168
106
163
99
88
102
122
86
116
150
124
120
86
215

RESERVOIR STORAGE (1,000 Ac. Ft.)

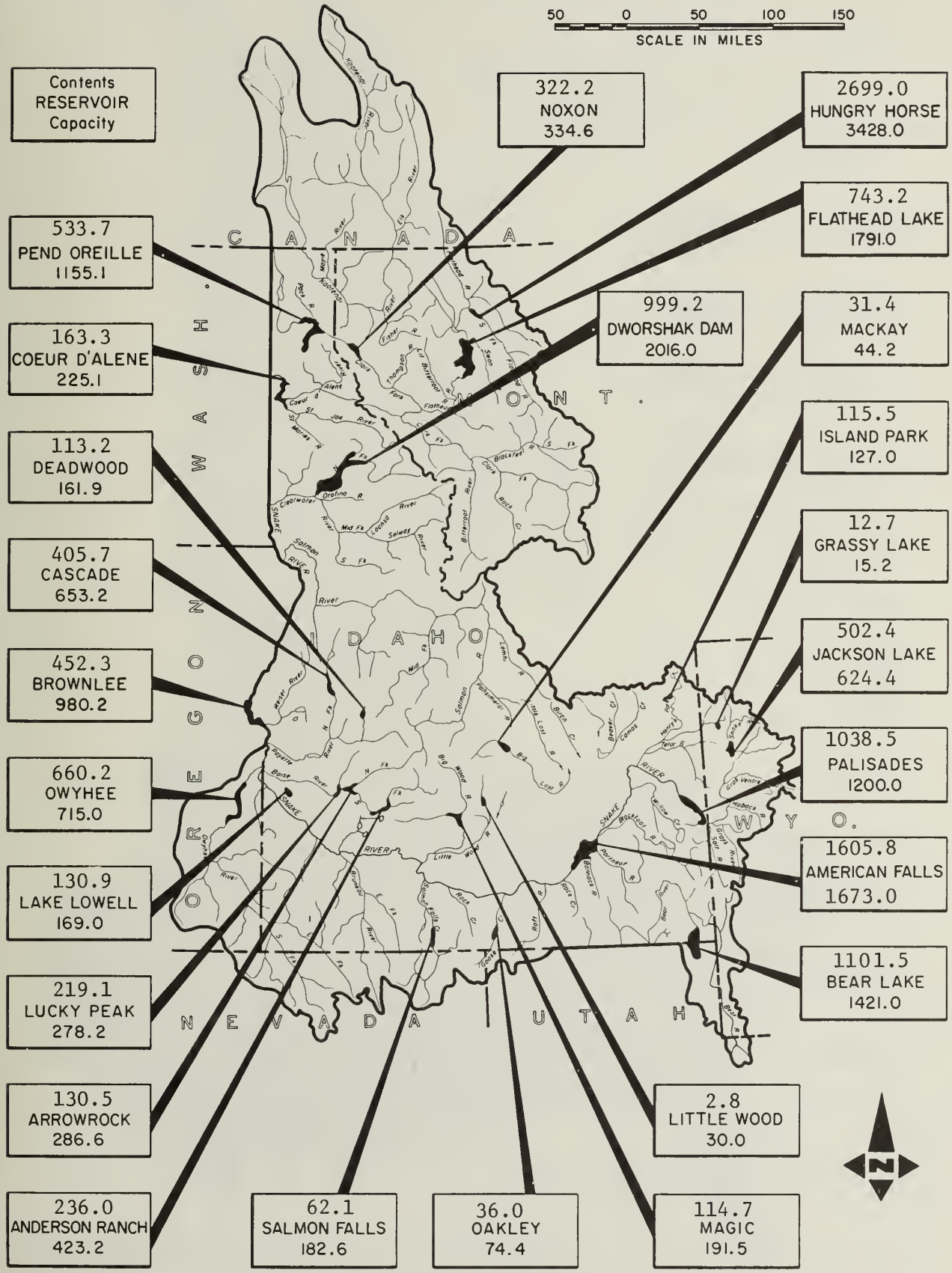
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2699.0	2158.0	2016.0
Flathead	1791.0	743.2	750.4	775.7
Pend Oreille	1155.1	533.7	549.0	432.9
Noxon	334.0	322.2	312.1	191.9
Spokane				
Coeur d'Alene	225.1	163.3	166.7	149.9
SNAKE BASIN				
Snake				
Jackson Lake	624.4	502.4	459.6	612.9
Palisades	1200.0	1038.5	404.4	815.9
American Falls	1673.0	1605.8	1548.0	1390.8
Island Park	127.0	115.5	123.1	122.5
Grassy Lake	15.2	12.7	13.0	10.8
Brownlee	980.2	452.3	359.0	395.5
Goose-Trapper Creeks				
Oakley	74.4	36.0	31.4	33.1
Salmon Falls Creek				
Salmon Falls	182.6	62.1	33.8	63.7
Big Lost				
Mackay	44.2	31.4	31.2	32.9
Big Wood				
Magic	191.5	114.7	109.3	129.9
Little Wood				
Little Wood	30.0	2.8	18.4	18.5
Fish Creek				
Carey Valley	14.4	10.3	8.4	--
Boise				
Anderson Ranch	423.2	236.0	212.6	248.5
Arrowrock	286.6	130.5	137.1	226.6
Lucky Peak	278.2	219.1	97.2	115.5
Lake Lowell (Deer Flat)	169.0	130.9	128.8	139.3
Owyhee				
Owyhee	715.0	660.2	701.3	553.2
Payette				
Cascade	653.2	405.7	356.9	305.4
Deadwood	161.9	113.2	100.0	92.0
Weiser				
Mann Creek	11.1	6.4	8.8	--
Clearwater				
Dworshak	2016.0	999.2	157.9	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1101.5	957.6	1039.5

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1983

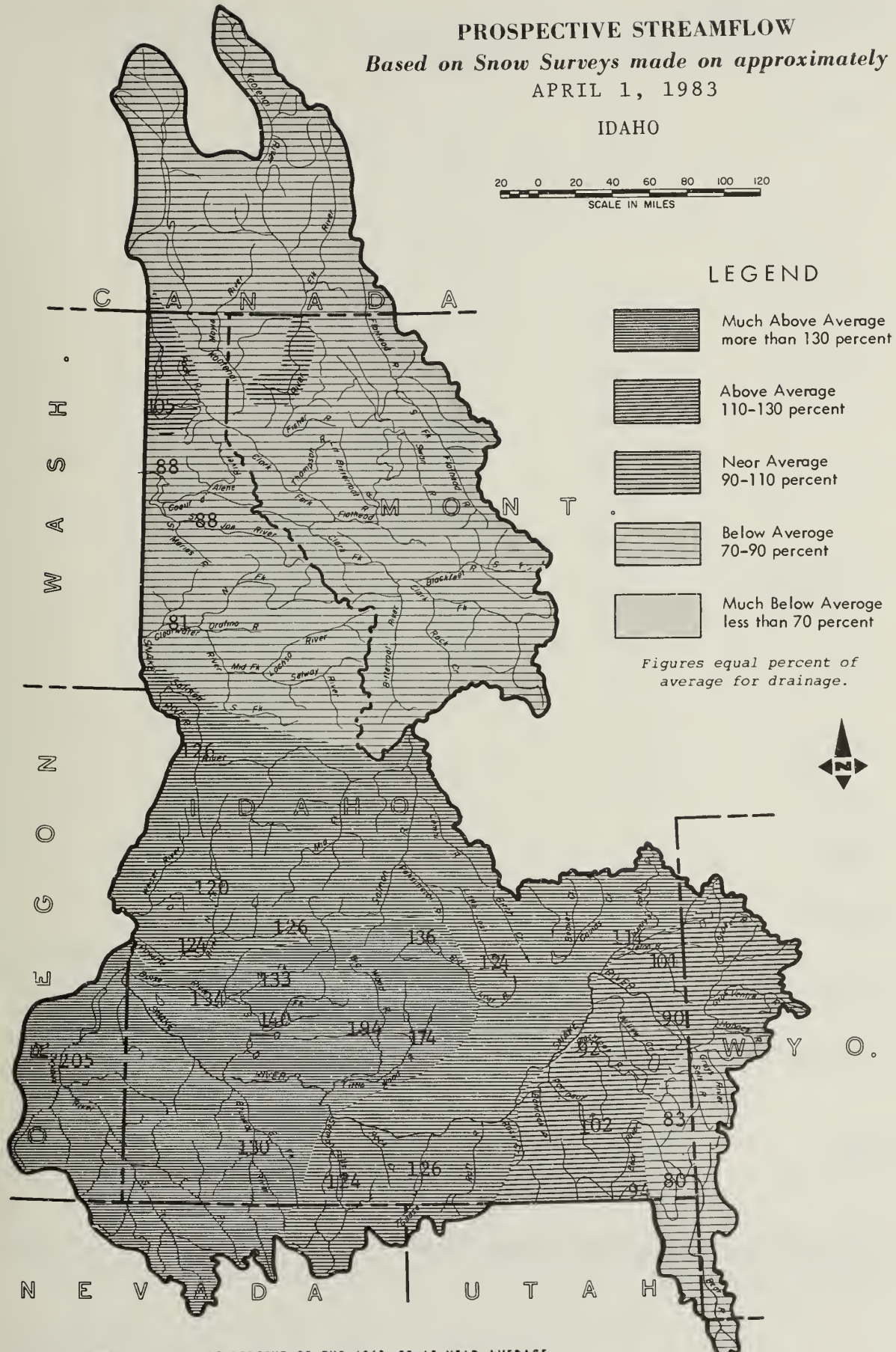


STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8060	91	Apr-Sep	--	8858
		7010	91	Apr-Jul	--	7708
		5600		Apr-Jun	--	6144
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	10700	78	Apr-Sep	--	13781
		9720	78	Apr-Jul	--	12519
		8300	78	Apr-Jun	--	10633
Priest River						
Priest River 1/	(at)	940	105	Apr-Sep	--	895
		883	105	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	2570	88	Apr-Sep	--	2910
		2470	88	Apr-Jul	--	2802
St. Joe River						
Calder	(at)	1155	88	Apr-Sep	--	1309
		1095	88	Apr-Jul	--	1238
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	857	95	Apr-Sep	--	903
Palisades Inflow 3/		3477	90	Apr-Sep	--	3863
Heise 4/	(nr)	3740	90	Apr-Sep	--	4139
		3175	90	Apr-Jul	--	3527
Blackfoot 5/	(nr)	5160	92	Apr-Sep	--	5612
		4210	92	Apr-Jul	--	4579
Henrys Fork						
Ashton 6/	(nr)	840	114	Apr-Sep	--	737
		624	114	Apr-Jul	--	547
Rexburg 7/	(nr)	1740	113	Apr-Sep	--	1534
		1360	113	Apr-Jul	--	1202
Teton						
South Leigh Creek	(ab)	203	101	Apr-Sep	--	201
		152	101	Apr-Jul	--	150
Portneuf River						
Topaz	(at)	110	102	Mar-Sep	--	108
		90	102	Mar-Jul	--	88
Oakley Reservoir Inflow		39	126	Apr-Sep	--	31
		35	125	Apr-Jul	--	28
Salmon Falls Creek						
San Jacinto	(nr)	118	124	Mar-Sep	--	95
		112	124	Mar-Jul	--	90
		105	124	Mar-Jun	--	85
Bruneau River						
Hot Springs	(nr)	325	130	Mar-Sep	--	251
		309	130	Mar-Jul	--	238
Little Lost River						
Howe	(nr)	56	124	Apr-Sep	--	45
		42	124	Apr-Jul	--	34
Wet Creek	(bl)	50.5	123	Apr-Sep	--	41
		40.5	123	Apr-Jul	--	33
		32	123	Apr-Jun	--	26

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
Big Lost River						
Howell Ranch	(at)	305	136	Apr-Sep	--	225
		271	136	Apr-Jul	--	199
		209	136	Apr-Jun	--	154
Mackay 8/	(nr)	278	136	Apr-Sep	--	204
Big Wood River						
Magic Reservoir		620	194	Apr-Sep	--	319
Inflow 9/		590	195	Apr-Jul	--	303
Little Wood River	(nr)	186	174	Apr-Sep	--	107
Carey 10/		172	174	Apr-Jul	--	99
		151	174	Apr-Jun	--	87
Boise River						
Twin Springs	(nr)	975	133	Apr-Sep	--	733
		900	133	Apr-Jul	--	676
Boise 11/	(nr)	2219	134	Apr-Sep	--	1656
		2060	134	Apr-Jul	--	1536
		1820	134	Apr-Jun	--	1360
South Fork						
Anderson Dam 12/	(at)	870	140	Apr-Sep	--	622
		815	140	Apr-Jul	--	582
Owyhee River						
Gold Cr., Nv 13/	(nr)	38	165	Apr-Jul	--	23
Owyhee, Nv 13/	(nr)	145	181	Apr-Jul	--	80
Lake Owyhee		775	198	Apr-Sep	--	392
net inflow 14/		750	205	Apr-Jul	--	431
Rome	(at)	740	205	Apr-Jul	--	361
Payette River						
Horseshoe Bend 15/	(nr)	2306	124	Apr-Sep	--	1860
		2134	124	Apr-Jul	--	1721
North Fork						
Cascade 16/	(at)	677	120	Apr-Sep	--	564
		635	120	Apr-Jul	--	529
Banks 16/	(nr)	875	121	Apr-Sep	--	726
		830	121	Apr-Jul	--	687
South Fork						
Lowman	(at)	650	126	Apr-Sep	--	516
		576	126	Apr-Jul	--	458
Weiser River						
Weiser	(nr)	574	130	Apr-Sep	--	442
		537	130	Apr-Jul	--	414
Salmon River						
Whitebird	(at)	9080	126	Apr-Sep	--	7188
		8210	126	Apr-Jul	--	6497
Clearwater River						
Spalding	(at)	7050	81	Apr-Sep	--	8672
		6620	81	Apr-Jul	--	8192
		GREAT BASIN				
BEAR RIVER						
Harer	(at)	265	80	Apr-Sep	--	332

(c) Assuming normal meteorological conditions.

† 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Montpelier Creek						
Montpelier	(nr)	11.5	83	Apr-Sep	--	13.9
Cub River						
Preston	(nr)	47	95	Apr-Sep	--	50
		44	94	Apr-Jul	--	47

1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake.
3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades.
5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henrys Lake, Grassy Lake and diversions between Heise and Blackfoot.
6/ Corrected for storage in Henrys Lake and Island Park Reservoir.
7/ Corrected for storage in Henrys Lake and Island Park, Grassy Lake and diversions between Ashton and Rexburg.
8/ Observed flow corrected for storage in Mackay Reservoir.
9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
10/ Corrected for storage in Little Wood Reservoir.
11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
12/ Corrected for storage in Anderson Ranch Reservoir.
13/ Corrected for storage in Wildhorse Reservoir.
14/ From Bureau of Reclamation records of inflow.
15/ Corrected for storage in Cascade and Deadwood Reservoirs.
16/ Corrected for storage in Cascade Reservoir.
Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE		Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average
Above Burke	Coeur d'Alene	4100	3/31	41	15.4	21.4	24.7*
Above Gilmore	Lemhi	8240	4/1	42	11.5	14.2	10.6
Above Roland	St. Joe	4350	4/1	69	29.8	35.8	35.2*
Allen Ranch	Blackfoot	6470	3/30	26	10.5	13.3	--
Antelope Ridge	Owyhee	6180	3/26	22	7.5	10.4	6.2
Aspen Grove	Willow	6500	4/1	43	14.2	17.4	12.1*
Aspen Hall Pass	Lemhi	8200	4/1	46	11.7	13.8	10.6*
Atlanta Summit	Boise	7600	3/28	126	45.6	50.1	36.2
Atlanta Townsite	Boise	5370	4/1	36	14.2	14.2	--
Austin Brothers Ranch	Blackfoot	6400	3/30	23	8.8	11.2	8.9
Bad Bear	Boise	4940	3/30	38	14.0	15.9	13.9
Badger Gulch	Trapper	6660	4/5	44	14.6	18.2	13.1
Banner Summit	Payette	7040	4/1	102	35.8	38.7	--
Battle Creek	Owyhee	5710	4/5	6	1.2	--	1.7
Beagle Springs (Mt)	Beaverhead	8850	3/31	40	8.6	12.5	--
Bear Basin	Little Salmon	5350	3/31	76	25.8	20.1	--
Bear Canyon	Big Lost	7900	4/1	87	28.2	26.7	19.9
Bear Creek (Nv)	Jarbidge	8040	4/1	83	27.8	31.5	21.3
Bear Mountain	Clark Fork	5400	3/28	147	66.1	75.1	64.2*
Bear Saddle	Mann Creek	6180	3/28	96	37.5	28.8	--
Beaverdam Creek	Portneuf	6120	3/23	25	7.6	12.6	--
Below Roland	St. Joe	3920		Not Available		14.1	16.5*
Bennett Mountain	Canyon Creek	6560	3/26	66	25.2	21.1	17.5
Benton Meadow	Priest	2370	4/1	0	0.0	0.0	5.0
Benton Spring	Priest	4920	4/1	55	22.0	18.9	20.2
Big Creek Summit	Salmon	6580	3/25	118	43.1	51.5	37.5
Big Springs	Henrys Fork	6400	3/30	60	23.2	24.0	22.0
Birch Creek	Willow	6800	4/1	31	9.3	15.9	11.4*
Black Bear (Mt)	Madison	7950	3/30	124	48.4	57.4	44.1
Black Canyon	Henrys Fork	7960	3/31	104	40.6	--	35.4*
Black Moose	Henrys Fork	8160	3/31	113	45.2	--	40.3*
Blue Ledge Mine	Beaver-Camas	6900	3/30	80	31.0	16.7	17.8
Blue Ridge	Blackfoot	6780	4/1	65	24.3	28.0	--
Bogus Basin	Payette	6340	3/30	102	40.0	29.8	24.5
Bogus Basin Road	Boise	5540	3/30	9	2.6	4.9	2.2
Bone	Willow	6200	4/1	21	7.0	7.0	7.2*
Borah (A)	Pahsimeroi	8250	4/1	28	8.4	9.8	--
Bostetter Ranger Sta.	Trapper	7500	4/5	71	21.8	28.1	20.2
Boulder Creek	Weiser	5440	3/31	78	27.8	25.4	25.1
Boy Scout Camp	Raft	7740	4/5	100	31.9	20.7	15.8
Breezy Saddle	Clearwater	5010	3/31	86	24.8	30.4	--
Brockman Station	Willow	6430	4/1	33	10.4	8.3	--
Brundage Mountain	Little Salmon	7560	4/1	152	58.3	57.8	48.6*
Bruno Creek	Squaw Creek	7920	3/29	57	19.4	--	--
Buck Meadows	Selway	5650	3/29	65	20.0	39.5	31.2*
Bull Basin (A)	Owyhee	5460	4/5	T	0.1	--	0.4
Camas Creeks Divide	Big Wood	5710	3/26	49	19.5	17.5	8.8*
Camp Creek	Beaver	6580	3/29	55	17.8	11.5	12.0
Cayuse Airstrip	Clearwater	3500	3/29	7	2.0	8.8	9.8
Cedar Creek	Cedar	6820	4/1	26	8.4	12.6	10.0
Chilco Ridge	Hayden	3650	3/30	0	0.0	0.0	--
Chimney Creek	Big Wood	6400	3/26	57	24.4	18.8	--
Christensen Ranch	Mink	5560	3/27	21	7.4	10.9	7.6
Clear Creek Meadows	Raft	9420	4/5	114	35.8	36.0	23.6
Cliff Canyon	Malad	7200	3/27	63	24.3	14.6	--
Cold Springs	Portneuf	7000	3/27	65	23.4	29.0	--
Conie Ridge	Hayden	3900	3/30	0	0.0	2.0	--
Coolwater Mountain	Lochsa	6030	3/29	100	32.7	44.2	33.0
Copes Camp	Lemhi	7520	4/1	35	8.1	12.6	8.8
Copper Basin	Big Lost	7640	4/1	55	17.9	12.6	10.9
Copper Ridge	Coeur d'Alene	4820	3/31	60	24.7	26.6	29.7
Corner Creek	Hayden	3150	3/30	0	0.0	0.0	--
Couch Summit	Boise	6840	3/26	74	29.4	20.5	18.7
Cozy Cove	Deadwood	5380	4/1	49	19.2	17.5	16.6
Crab Creek	Camas-Beaver	6860	3/30	80	28.8	15.2	--
Crater Meadows	Clearwater	5960	3/29	98	33.4	45.0	46.3
Crawford Ranger Sta.	Payette	4860	3/25	14	5.0	6.5	6.1
Crooked Fork	Lochsa	3610	3/31	18	6.6	13.4	14.1*
Cub River Ranger Sta.	Cub	5450	3/27	17	5.3	10.2	6.9
Daniels Creek	Malad	6270	3/27	22	7.2	9.8	--
Darby Canyon (Wy)	Teton	8250	4/1	72	25.1	32.1	24.0*
Deadline	Salmon Falls	7400	4/1	74	28.5	28.7	22.3
Deadline South	Salmon Falls	7450	4/1	81	31.1	29.5	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME & DRAINAGE		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
Deadman Gulch		Boise	5600	3/27	63	22.0	20.2	16.8*
Deadwood Airstrip		Deadwood	5360	4/1	53	19.8	18.4	15.6
Deadwood Summit		Deadwood	6860	4/1	148	58.3	61.5	47.5
Dempsey Creek		Portneuf	6100	3/27	34	10.4	18.0	13.0
Dollarhide Summit		Big Wood	8420	4/1	108	37.5	38.9	25.1
Double Springs Pass		Pahsimeroi	8380	4/1	51	14.1	13.2	11.1*
Dry Basin		Mink	7820	3/27	87	30.7	38.5	30.2
Dry Creek Flat		Malad	6360	3/27	18	6.2	9.3	5.3
Dry Fork		Big Lost	7220	3/31	66	21.4	19.7	16.9*
East Creek		Portneuf	7000	3/27	40	13.2	19.0	--
East Twin		Palouse	4130	3/30	0	0.0	11.4	9.8
Elk Butte		Clearwater	5550	3/31	90	27.2	35.4	38.8
Emigrant Summit		Bear	7390	3/31	78	26.1	36.7	26.0
Emigration Canyon		Bear	6500	3/31	29	9.8	16.4	11.1
Fairview Guard Station		Little Lost	6750	3/29	20	6.2	6.6	3.2
Fish Lake Airstrip		Lochsa	5650	3/29	86	29.0	40.8	41.2
Fishpole Lake		Big Lost	9300	4/1	112	40.5	32.1	21.1*
Forty-nine Meadows		Clearwater	4830	3/31	77	24.4	28.6	32.5
Fourth of July Summit		Coeur d'Alene	3200	3/31	0	0.0	3.2	8.8
Fox Creek	(Nv)	Jarbidge	6750	4/1	41	13.1	14.7	9.9*
Franklin Basin		Cub	8040	3/27	74	24.6	35.3	28.2
Franklin Basin Snotel		Cub	8170	3/27	81	26.5	--	--
Freds Mountain	(Wy)	Teton	8150	3/31	78	28.7	32.3	20.7*
Galena		Big Wood	7440	3/28	73	26.2	23.3	19.5
Galena Snotel		Big Wood	7470	3/28	81	28.2	25.6	--
Galena Summit		Big Wood	8780	3/28	95	31.4	32.3	25.2
Garfield Ranger Sta.		Little Wood	6560	4/1	48	16.1	14.5	10.2
George Creek	(Ut)	Raft	8840	4/5	111	35.2	34.5	--
George Peak	(Ut)	Raft	9000	4/5	122	39.5	44.0	--
Gibbons Pass	(Mt)	Bitterroot	7100	3/28	66	24.8	30.9	24.8
Giveout		Montpelier	6860	4/1	40	11.9	19.0	13.0
Giveout Snotel		Montpelier	6930	4/1	31	9.4	--	--
Goat Creek	(Nv)	Salmon Falls	8880	4/1	71	22.0	29.0	18.6
Goat Lake		Clearwater	6500	3/29	104	35.2	47.8	49.3
Graham Guard Station		Boise	5690	4/1	50	18.3	19.8	--
Graham Ranch		Big Wood	6270	3/28	65	23.4	16.6	14.4
Granite Peak		St. Joe	6000	3/31	127	37.8	44.2	46.8
Grassy Lake	(Wy)	Henrys Fork	7265	3/29	95	35.1	48.3	36.6
Hall Creek		Lemhi	7560	4/1	22	7.1	8.4	5.9*
Hemlock Butte		Clearwater	5810	3/29	108	38.2	52.2	51.3
Hilts Creek		Little Lost	8000	3/30	59	17.0	--	--
Hoodoo Basin	(Mt)	Clark Fork	6000	3/29	109	46.2	65.0	53.6*
Hoodoo Creek	(Mt)	Clark Fork	5900	3/29	100	41.4	58.5	49.9
Horseshoe Basin		Bear	8000	3/27	84	29.4	35.7	25.6
Howell Canyon		Marsh Creek	7980	4/5	104	36.6	38.2	26.1
Humboldt Gulch		Coeur d'Alene	4250	3/31	33	11.6	15.0	--
Hummingbird Springs	(Nv)	Jarbidge	8870	4/1	91	28.5	37.1	23.7
Hyde Pasture (A)		Jordan-Owyhee	5760	4/5	21	8.0	--	3.2
Hyndman Creek		Big Wood	7440	3/29	63	21.2	22.1	--
Idaho City Townsite		Boise	4000	3/30	0	0.0	3.1	--
Indian Grove		Raft	7560	4/5	62	20.0	15.7	--
Indian Meadows		Teton	8240	4/1	115	45.5	--	37.4*
Iron Bog		Big Lost	7650	3/31	65	20.8	13.2	14.1
Iron Mine Creek		Fish Creek	6300	4/3	52	19.3	15.9	10.5
Irving Creek		Medicine Lodge	7035	3/28	38	10.4	9.5	5.7*
Island Park		Henrys Fork	6290	3/30	58	20.7	20.4	17.2
Jackpine Creek	(Wy)	Teton	7350	4/1	70	26.1	29.6	23.0*
Jackson Peak		Boise	7070	4/1	112	40.5	38.8	33.1
Johnson Creek		Blackfoot	6730	3/30	33	11.3	16.8	--
Kellogg Peak		Coeur d'Alene	5560	4/1	82	30.0	36.2	35.4
Kilgore		Camas Creek	6320	3/30	40	15.2	13.2	11.5
Kit Carson Pasture		Selway	4950	3/31	15	4.7	13.1	9.1
Kruze Meadow		Clearwater	4780	3/31	27	8.5	14.6	--
Lake Fork		Payette	5290	3/26	49	16.9	16.6	16.9
Langford Flat Creek		Salmon Falls	5980	4/1	13	4.4	6.2	--
Latham Springs		Henrys Fork	7630	3/30	92	36.4	--	34.8
Lava Creek		Willow	7350	4/1	57	19.3	23.8	--
Leadbelt		Big Lost	6700	3/31	46	14.8	9.2	9.4
Leatherman Pass (A)		Pahsimeroi	9860	4/1	88	30.2	27.4	26.1*
Lemhi Pass	(Mt)	Beaverhead	7480	3/29	27	7.8	10.4	9.9
Lemhi Ridge	(Mt)	Beaverhead	8100	3/31	37	9.3	12.8	10.9*
Liberty Spring		Mink	8600	3/27	111	40.8	57.6	39.8
Little Beaver		Montpelier	6970	4/1	47	14.9	22.3	16.3

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME & DRAINAGE		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average
Little Camas Flat	Boise	4940	3/26	15	6.2	8.8	4.0
Logger Springs	Raft	8120	4/5	80	24.8	24.2	--
Lolo Pass	Lochsa	5240	4/2	58	22.0	34.3	32.6
Lookout	Coeur d'Alene	5140	3/31	90	33.0	37.6	37.1
Lost Garfield	Little Lost	6600	3/29	16	5.4	6.7	3.0
Lost Horse (Mt)	Bitterroot	5940	4/1	77	28.8	45.2	35.2
Lost Lake	Clearwater	6110	3/31	152	49.8	57.5	61.8*
Lost-Wood Divide	Big Lost	7900	3/28	86	31.2	33.8	24.8
Lower Elkhorn	Portneuf	6960	3/27	53	18.4	21.8	14.0*
Lower Home Canyon	Montpelier	7640	3/31	41	12.2	19.0	14.9*
Lower Pebble	Portneuf	5780	3/27	42	13.1	20.4	13.3*
Lower Sands Creek	Coeur d'Alene	3120	4/1	39	16.9	16.4	21.9
Lucky Dog	Henrys Fork	6860	3/30	80	31.2	--	26.0
Magic Mountain	Rock Creek	6880	4/1	61	23.1	25.9	19.2
Mann Creek	Weiser	6080	3/28	93	35.4	29.6	27.7*
Mascot Mine	Big Wood	7780	3/29	67	20.6	24.1	15.5
McRenolds Reservoir	Teton	6720	4/1	60	20.5	22.8	20.7*
Meadow Lake	Lemhi	9150	4/1	70	21.8	28.0	20.8
Mill Creek Summit	Salmon	8800	4/1	82	26.5	33.8	24.1
Mink Creek	Portneuf	6410	3/30	58	22.6	29.1	18.3
Montpelier Creek	Montpelier	6540	4/1	22	7.6	9.3	8.4
Moonshine	Little Lost	7440	3/29	52	15.0	12.2	11.2
Moores Creek Summit	Boise	6100	3/30	111	42.4	40.8	33.6
Moose Creek	North Fork Salmon	6200	4/1	54	18.4	22.0	17.1
Morgan Creek	Salmon	7600	4/1	51	15.8	18.9	14.9
Morse Creek Sawmill	Salmon	7120	4/1	38	11.2	11.0	9.5
Moscow Mountain	Palouse	4410	3/30	41	15.9	19.6	18.0
Mosquito Ridge	Coeur d'Alene	5200	4/1	108	42.6	41.8	40.2
Mount Baldy	Big Wood	8920	3/31	109	35.0	25.1	21.4
Mountain Meadows	Selway	6360	3/29	49	14.4	31.6	26.1*
Mud Creek	Willow	7100	4/1	74	25.3	28.5	--
Mud Flat	Owyhee	5730	3/26	18	6.4	8.4	4.9
Muldoon	Little Wood	6320	4/1	31	11.1	9.3	7.1
Nez Perce Pass (Mt)	Bitterroot	6570	3/31	42	13.7	24.1	--
North Putnam	Ross Fork	7240	3/31	91	28.6	41.0	--
One Mile Summit	Raft	7330	4/5	35	7.9	9.2	7.6
Oxford Mountain	Malad	6800	3/27	31	9.0	14.1	9.5
Oxford Spring	Malad	6740	3/27	34	10.9	16.9	--
Packsaddle Spring	Teton	8200	4/1	90	34.2	--	--
Pebble Creek	Portneuf	6550	3/27	45	14.6	20.5	16.7
Perreau Meadows	Salmon	8500	3/30	53	15.5	21.7	--
Phillips Bench (Wy)	Teton	8200	3/29	90	29.6	40.8	30.6*
Pierce Ranger Station	Clearwater	3080	3/30	0	0.0	11.5	10.6
Pine Creek Pass	Teton	6810	3/31	51	17.4	23.2	18.3
Placer Creek	Weiser	5860	3/27	68	23.2	18.8	18.8
Pole Creek Ranger Sta.	Jarbidge	8360	4/1	72	23.6	30.6	22.5
Prairie	Boise	4800	3/31	0	0.0	4.6	3.4
Red Canyon	Owyhee	6650	4/5	27	10.3	--	5.0
Redfish Lake Flat	Salmon	6560	3/28	44	15.9	15.6	10.9*
Road Creek	Boise	5380	4/1	24	8.4	13.0	9.2*
Robinson Creek Ridge	Weiser	6220	3/28	79	32.5	19.0	21.3*
Rock Flat Summit	Payette	5310	3/31	69	25.3	18.4	19.6
Roland Summit	St. Joe	5120	4/1	98	39.0	46.4	40.1*
Sage Creek Saddle	Hayden	4080	3/30	40	15.8	16.2	--
Savage Pass	Lochsa	6170	3/31	66	23.0	34.3	28.6
Sawmill Canyon	Little Lost	7000	3/29	31	10.0	8.8	8.1
Sawtell Mountain	Henrys Fork	8720	3/30	137	51.0	48.8	35.1*
Schwartz Lake	Lemhi	8540	4/1	50	13.9	20.3	13.8
Schweitzer Basin	Pend Oreille	6090	3/31	147	60.1	61.0	--
Schweitzer Bowl	Pend Oreille	4800	3/31	97	40.1	38.6	30.9*
Schweitzer Ridge	Pend Oreille	6200	3/31	137	57.1	54.5	47.8*
Secesh Summit	Payette	6520	3/26	107	43.6	46.8	37.2*
Sedgwick Peak	Portneuf	7850	3/27	58	16.8	26.3	--
Seventy-Six Creek	Jarbidge-Bruneau	7100	4/1	52	17.4	--	11.4
Shanghai Summit	Clearwater	4570	3/29	54	18.2	27.2	27.2
Sheep Mountain	Willow	6570	4/1	47	16.4	18.3	13.9*
Sherwin	St. Maries	3200	3/28	10	3.6	15.1	13.8
Shoshone Basin	Salmon Falls	5810	4/1	14	4.4	5.0	5.1*
Silver City	Jordan-Owyhee	6400	3/26	56	21.5	19.8	15.4
Skitwish Ridge	Coeur d'Alene	5110	3/31	87	35.5	33.9	--
Slug Creek Divide	Blackfoot	7230	3/31	48	14.7	22.3	18.0
Smith Creek	Kootenai	4800	3/30	122	51.8	52.8	48.8
Soldier Ranger Station	Big Wood	5740	3/26	44	18.5	11.9	10.3

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE		Elevation	THIS YEAR Date of Survey	THIS YEAR Snow Depth (inches)	THIS YEAR Water Content (inches)	PAST RECORD Water Content (inches) Last Year	PAST RECORD Water Content (inches) Average
Somsen Ranch	Willow Creek	6840	3/30	40	13.5	20.6	15.1
South Mountain	Jordan-Owyhee	6500	4/2	70	26.5	19.0	13.0
Squaw Flat	Weiser	6240	3/26	84	33.4	26.8	--
Squaw Meadow	Payette	5900	3/26	98	44.7	45.3	37.4
State Line	Teton	6660	3/31	44	15.5	17.4	15.3
Stickney Mill	Big Lost	7430	3/28	52	16.5	13.7	10.6
Strawberry Creek	Mink	5820	3/31	25	9.2	12.7	10.2
Strawberry Mink Divide	Mink	6720	3/27	56	20.5	28.8	21.9
Sturgill Ridge	Weiser	6680	3/28	110	44.4	34.4	32.6*
Sublett	Raft	5950	4/5	43	14.5	16.3	11.1
Succor Creek	Jordan-Owyhee	6100	4/5	41	15.6	--	5.0
Sulphur Peak	Blackfoot	7070	3/30	40	14.6	19.9	--
Sunset	Coeur d'Alene	5540	4/1	79	28.4	37.0	36.2
Swede Peak	Little Wood	7640	4/1	86	29.7	26.0	18.1
Targhee Pass	Henrys Fork	6980	3/30	60	20.1	16.8	17.1*
Telfer Ranch	Fish Creek	5840	4/3	29	12.0	10.3	6.8
Teton Pass W.S. (Wy)	Teton	7740	3/29	83	29.0	34.7	27.7*
Tex Creek	Willow	6650	4/1	32	10.6	13.6	9.7*
Thorson Cabin	Weiser	5320	3/28	54	19.3	21.0	14.3*
Trail Creek (Mt)	Beaverhead	7090	3/31	24	6.6	--	--
Trinity Mountain	Boise	7770	3/28	137	52.6	60.8	43.2
Tripod Summit	Payette	5260	3/27	58	22.4	20.9	19.7
Twelve Mile Creek (Mt)	Bitterroot	5600	4/1	43	16.7	--	--
Twin Peaks	Salmon	9190	4/1	85	27.5	35.1	28.0
Twin Lakes (Mt)	Bitterroot	6510	4/1	95	36.3	--	--
Twitchell Canyon	Blackfoot	6300	3/31	53	19.7	--	--
Upper Elkhorn	Portneuf	7140	3/27	76	25.5	27.1	19.5*
Upper Home Canyon	Montpelier	8560	3/31	73	23.5	35.2	25.1*
Valley View	Henrys Fork	6680	3/30	63	21.9	19.8	18.4
Vaught Ranch	Owyhee	5830	4/5	0	0.0	--	1.7*
Vi Pont	Goose	7670	4/5	63	19.8	22.0	15.1*
Vienna Mine	Salmon	8960	3/28	118	43.2	55.6	38.7*
War Eagle	Jordan-Owyhee	7280	4/5	102	40.8	--	25.1
Webb Creek	Clearwater	4720	3/31	27	8.9	14.4	--
Webber Creek	Medicine Lodge	6700	3/28	34	9.8	9.8	--
West Branch	Weiser	5560	3/31	87	31.2	29.8	--
West Twin	Palouse	4220	3/30	0	0.0	6.1	9.1
Wet Creek Summit	Little Lost	7680	3/30	64	18.7	15.3	13.6
Whiskey Flat	Montpelier	6960	4/1	30	9.8	15.3	9.4
White Elephant	Henrys Fork	7710	3/30	101	35.1	34.4	25.6*
Wildhorse Divide	Portneuf	6490	3/30	53	19.8	25.8	--
Williams Creek Summit	Salmon	7990	3/30	41	10.7	16.7	13.5
Willow Flat	Cub	6070	3/27	38	12.9	19.3	14.8
Wilson Creek (Nv)	Salmon Falls	7500	4/1	53	18.7	19.7	11.9
Wood Canyon Divide	Blackfoot	7450	3/30	50	17.0	24.8	--
Worm Creek	Cub	6620	3/27	48	17.5	23.0	--

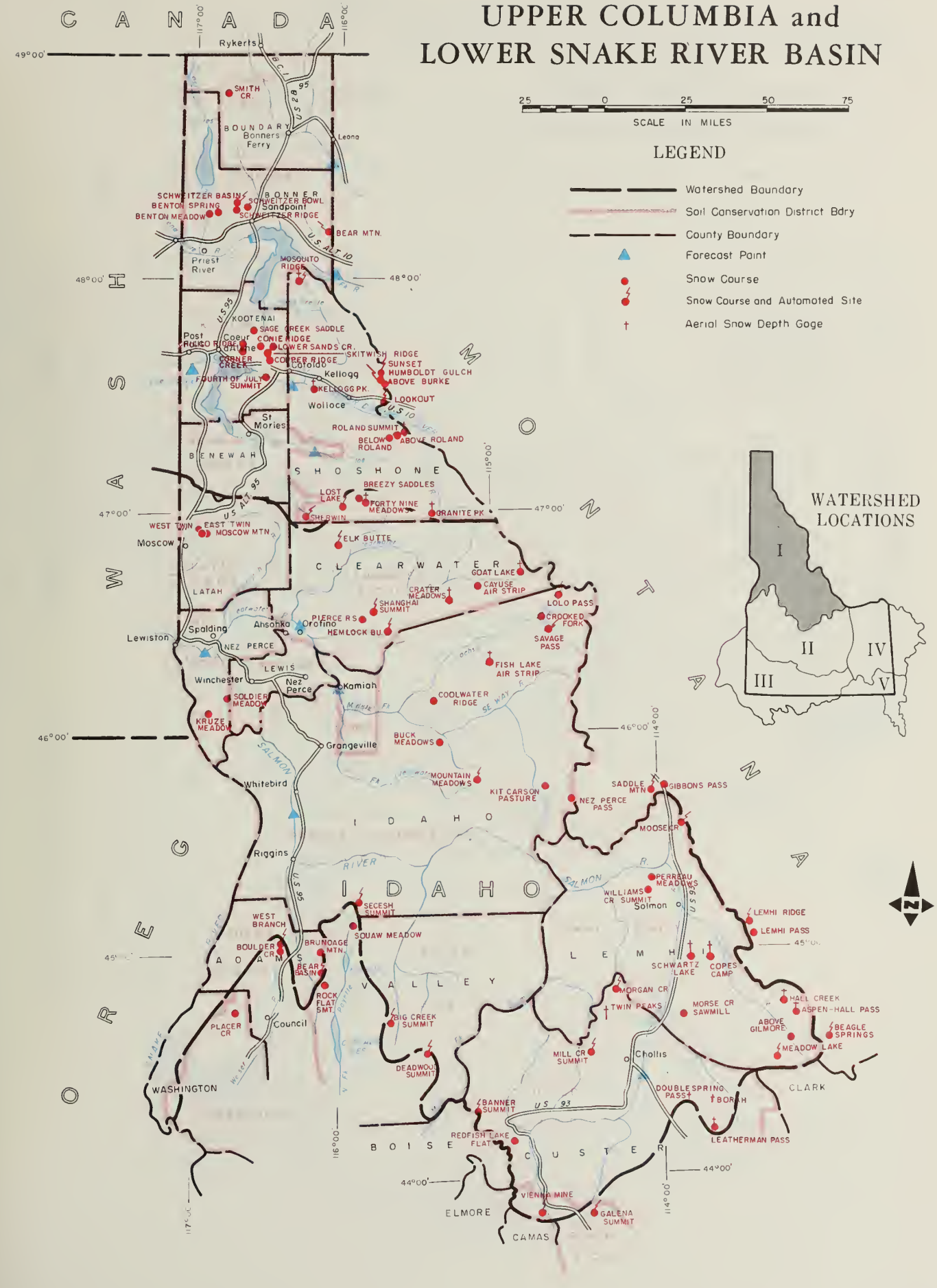
(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOTEL 1/

Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulative) (inches)
Atlanta Summit	Boise	4/1	Not Available	46.7
Banner Summit	Payette	4/1	33.9	36.2
Bear Basin	Little Salmon	4/1	28.2	34.3
Bear Canyon	Big Lost	4/1	27.0	30.2
Bear Mountain	Clark Fork	4/1	Not Available	74.6
Bear Saddle	Mann Creek	4/1	39.2	38.8
Bennett Mountain	Canyon Creek	4/1	31.3	30.3
Big Creek Summit	Salmon	4/1	45.4	43.7
Bostetter Ranger Station	Trapper	4/1	33.5	15.7
Cozy Cove	Deadwood	4/1	26.3	32.7
Crab Creek	Camas-Beaver	3/30	30.3	28.4
Deadwood Summit	Deadwood	4/1	68.1	52.0
Dollarhide Summit	Big Wood	4/1	38.7	37.6
Elk Butte	Clearwater	4/1	42.2	45.8
Emigrant Summit	Bear	4/1	31.7	28.3
Franklin Basin	Cub	4/1	30.2	29.0
Galena	Big Wood	4/1	27.2	26.3
Galena Summit	Big Wood	4/1	28.0	30.7
Garfield Ranger Station	Little Wood	4/1	21.3	22.4
Giveout	Montpelier	4/1	12.2	11.2
Graham Guard Station	Boise	4/2	24.0	30.9
Hilts Creek	Little Lost	4/1	22.2	20.9
Howell Canyon	Marsh Creek	4/1	31.5	32.9
Humboldt Gulch	Coeur d'Alene	4/1	10.1	38.8
Hyndman	Big Wood	4/1	22.5	24.3
Island Park	Henrys Fork	4/1	21.0	24.8
Jackson Peak	Boise	4/1	40.9	44.0
Lolo Pass	Lochsa	4/1	18.1	32.1
Lookout	Coeur d'Alene	4/1	32.4	41.0
Lost Lake	Clearwater	4/1	62.5	58.3
Lost-Wood Divide	Big Lost	4/1	34.6	34.8
Magic Mountain	Rock Creek	4/1	24.7	25.8
Meadow Lake	Lemhi	3/31	23.0	21.0
Mill Creek Summit	Salmon	4/1	23.1	24.4
Moonshine	Little Lost	4/1	16.6	17.5
Moores Creek Summit	Boise	4/1	48.9	45.2
Moose Creek	North Fork Salmon	4/1	19.9	21.4
Morgan Creek	Salmon	4/1	17.1	17.9
Mosquito Ridge	Coeur d'Alene	4/1	43.9	48.2
Mountain Meadows	Selway	4/1	19.2	23.9
Mud Flat	Owyhee	4/1	7.5	14.4
Oxford Spring	Malad	4/1	12.7	20.3
Prairie	Boise	4/1	0.0	24.2
Savage Pass	Lochsa	4/1	23.6	27.0
Schweitzer Basin	Pend Oreille	4/1	68.0	47.1
Secesh Summit	Payette	4/1	48.7	45.6
Shanghai Summit	Clearwater	4/1	24.2	37.5
Sheep Mountain	Willow	4/1	Not Available	19.1
Sherwin	St. Maries	4/1	4.7	30.0
Slug Creek Divide	Blackfoot	4/1	18.9	20.2
Somsen Ranch	Willow Creek	3/30	12.8	15.6
South Mountain	Jordan-Owyhee	4/1	34.6	31.0
Squaw Flat	Weiser	4/1	37.0	41.4
Stickney Mill	Big Lost	4/1	15.4	16.0
Sunset	Coeur d'Alene	4/1	35.3	35.9
Swede Peak	Little Wood	4/1	28.6	31.5
Trinity Mountain	Boise	4/1	54.7	55.9
Vienna Mine	Salmon	4/1	46.9	43.0
West Branch	Weiser	3/27	30.4	37.9
White Elephant	Henrys Fork	4/1	37.3	39.8
Wildhorse Divide	Portneuf	4/1	13.5	26.4

1/Data readings as reported by automated Snotel System.

UPPER COLUMBIA and LOWER SNAKE RIVER BASIN



M7-OL-22023-1
USDA-SCS-FORT WORTH, TEXAS 1982

INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		KOOTENAI RIVER				
16A1	I	Smith Creek	29	64N	3W	4800
		PEND OREILLE-PRIEST RIVER				
16A8S	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4920
16A10S	I	Schweitzer Basin	18	58N	2W	6090
16A6	I	Schweitzer Bowl	20	58N	2W	4800
16A5	I	Schweitzer Ridge	19	58N	2W	6200
		HAYDEN CREEK				
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Sadler	10	52N	2W	4080
		SPOKANE RIVER				
15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	35	47N	6E	3920
16B2	I	Copper Ridge	6	50N	1W	4820
16B3	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	4	42N	8E	6000
15B21S	I	Humboldt Gulch	2	48N	5E	4250
16B5A	I	Kellog Peak	19	48N	3E	5560
15B2S	I	Lookout	4	47N	6E	5140
16B1	I	Lower Sands Creek	32	51N	1W	3120
16A4AS	I	Mosquito Ridge	5	54N	2E	5200
15B5A	I	Roland Summit	26	47N	6E	5120
16C1S	I	Sherwin	28	42N	1E	3200
16B4	I	Skitwish Ridge	6	50N	1W	4850
15B9AS	I	Sunset	33	49N	5E	5540

LOWER SNAKE BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		PALOUSE RIVER				
16C3	I	East Twin	13	40N	5W	4130
16C2	I	Moscow Mountain	18	40N	4W	4410
16C4	I	West Twin	14	40N	5W	4220
		CLEARWATER RIVER				
15B20	I	Breezy Saddle	1	43N	4E	5010
15D5	I	Buck Meadows	27	31N	8E	5650
15C3	I	Cayuse Airstrip	4	38N	11E	3500
15C7	I	Coolwater Mountain	31	33N	8E	6040
15C9A	I	Crater Meadows	11	37N	9E	5960
14C11	I	Crooked Fork	27	37N	14E	3610
16C15	I	Elk Butte	6	40N	3E	5550
15C2A	I	Fish Lake Airstrip	34	35N	11E	5650
15B3A	I	Forty-nine Meadows	6	43N	5E	4830
14C9A	I	Goat Lake	3	38N	13E	6500
16C6SR	I	Hemlock Butte	7	36N	7E	5810
15C10S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	15E	4950
16C17	I	Kruze Meadows	11	32N	4W	4780
14C5S	I	Lolo Pass	16	38N	15E	5240
15B14S	I	Lost Lake	9	43N	4E	6110
15D6S	I	Mountain Meadows	9	27N	10E	6360
14D1	M	Nez Perce Pass	25	1S	24W	6570
15CS	I	Pierce Ranger Station	2	36N	5E	3080
14C4S	I	Savage Pass	18	36N	15E	6170
15C4S	I	Shanghai Summit	7	37N	6E	4600
16C18	I	Soldier Meadows	33	33N	3W	4650
		SALMON RIVER				
13E19	I	Above Gilmore	13	13N	26E	8240
13E21A	I	Aspen-Hall Pass	6	16N	28E	8200
16E11S	I	Bear Basin	30	19N	3E	5350
15E2S	I	Big Creek Summit	24	15N	5E	6580
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17	I	Copes Camp	36	18N	22E	7520
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9860
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23S	M	Lemhi Ridge	4	10S	15W	8100
13E18S	I	Meadow Lake	26	13N	26E	9150
14E1S	I	Mill Creek Summit	8	13N	17E	8800
13D16S	I	Moose Creek	14	27N	21E	6200
14E4S	I	Morgan Creek	31	18N	19E	7600
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14D5	I	Perreau Meadows	23	21N	20E	8500
14E7	I	Redfish Lake Flat	35	10N	13E	6560
13E16	I	Schwartz Lake	34	18N	22E	8540
14E3A	I	Twin Peaks	28	15N	17E	9190
14F4S	I	Vienna Mine	1	5N	13E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7990

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

USDA—SCS—FORT WORTH, TEXAS 1982 M-7-OL-22023-1

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

USDA—SCS—FORT WORTH, TEXAS 1982 M7-OL-22023-2

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
NORTHSIDE

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		LITTLE LOST RIVER				
13E5	I	Fairview Guard Station	27	12N	26E	6750
13E10S	I	Hilts Creek	15	8N	25E	8000
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6S	I	Moonshine	31	13N	26E	7440
13E4	I	Sawmill Canyon	17	12N	26E	7000
13E7	I	Wet Creek Summit	15	8N	25E	7680
		BIG LOST RIVER				
13F3S	I	Bear Canyon	22	5N	21E	7900
13F2	I	Copper Basin	26	6N	21E	7640
13F20	I	Dry Fork	23	3N	23E	7220
13F8	I	Fishpole Lake	28	4N	22E	9300
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6700
14F3S	I	Lost Wood Divide	25	6N	18E	7900
14F2S	I	Stickney Mill	9	6N	19E	7430
		BIG WOOD RIVER				
15F9	I	Camas Creeks Divide	11	2S	9E	5710
15F15	I	Chimney Creek	9	1N	12E	6400
14F8S	I	Dollarhide Summit	9	3N	15E	8420
14F1	I	Galena	4	6N	15E	7440
14F6S	I	Galena Snotel	4	6N	15E	7470
14F12S	I	Galena Summit	7	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6270
14F16S	I	Hyndman Creek	2	4N	19E	7440
14F7	I	Mascot Mine	8	4N	20E	7780
14F9	I	Mount Baldy	23	4N	17E	8920
14F11	I	Soldier Ranger Station	29	2N	14E	5740
		LITTLE WOOD RIVER				
13F4S	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	26	3N	21E	6320
13F9S	I	Swede Peak	4	3N	21E	7640
		FISH CREEK				
13F10	I	Iron Mine Creek	33	3N	23E	6300
13F6	I	Telfer Ranch	7	2N	23E	5840
		BOISE RIVER				
15F8	I	Atlanta Townsite	3	5N	11E	5370
15F4S	I	Atlanta Summit	23	5N	10E	7580
15F2	I	Bad Bear	35	7N	6E	4940
16F4	I	Bogus Basin Road	32	5N	3E	5540

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
		BOISE RIVER (cont.)				
14F10	I	Couch Summit	9	2N	14E	6840
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14S	I	Graham Guard Station	9	7N	10E	5690
15F10	I	Idaho City Townsite	26	6N	5E	4000
15E9S	I	Jackson Peak	7	8N	9E	7070
15F1S	I	Moores Creek Summit	19	7N	7E	6100
15F6S	I	Prairie	13	2N	7E	4800
15F3	I	Road Creek	5	5N	8E	5380
15F5S	I	Trinity Mountain	6	3N	9E	7770
		CANYON CREEK				
15F7S	I	Bennett Mountain	7	2S	9E	6560
15F12	I	Little Camas Flat	21	1S	9E	4940
		PAYETTE RIVER				
15E11S	I	Banner Summit	11	11N	10E	7040
16F2	I	Bogus Basin	16	5N	3E	6340
15E8S	I	Cozy Cove	17	11N	7E	5380
15E3	I	Crawford Ranger Station	21	14N	4E	4860
15E10	I	Deadwood Airstrip	8	11N	7E	5360
15E4S	I	Deadwood Summit	13	14N	7E	6860
15E1	I	Lake Fork	3	18N	4E	5290
16E1	I	Rock Flat Summit	1	18N	2E	5310
15D1S	I	Secesh Summit	4	21N	4E	6520
15D2	I	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5260
		WEISER RIVER				
16D1	I	Boulder Creek	16	20N	1W	5440
16E2	I	Placer Creek	15	17N	3W	5860
16E5S	I	Squaw Flat	32	17N	2E	6240
16D8S	I	West Branch	15	20N	1W	5560
		MANN CREEK				
6E10S	I	Bear Saddle	29	15N	5W	6180
16E9	I	Mann Creek	20	15N	5W	6080
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E2	I	Thorson Cabin	12	14N	6W	5320

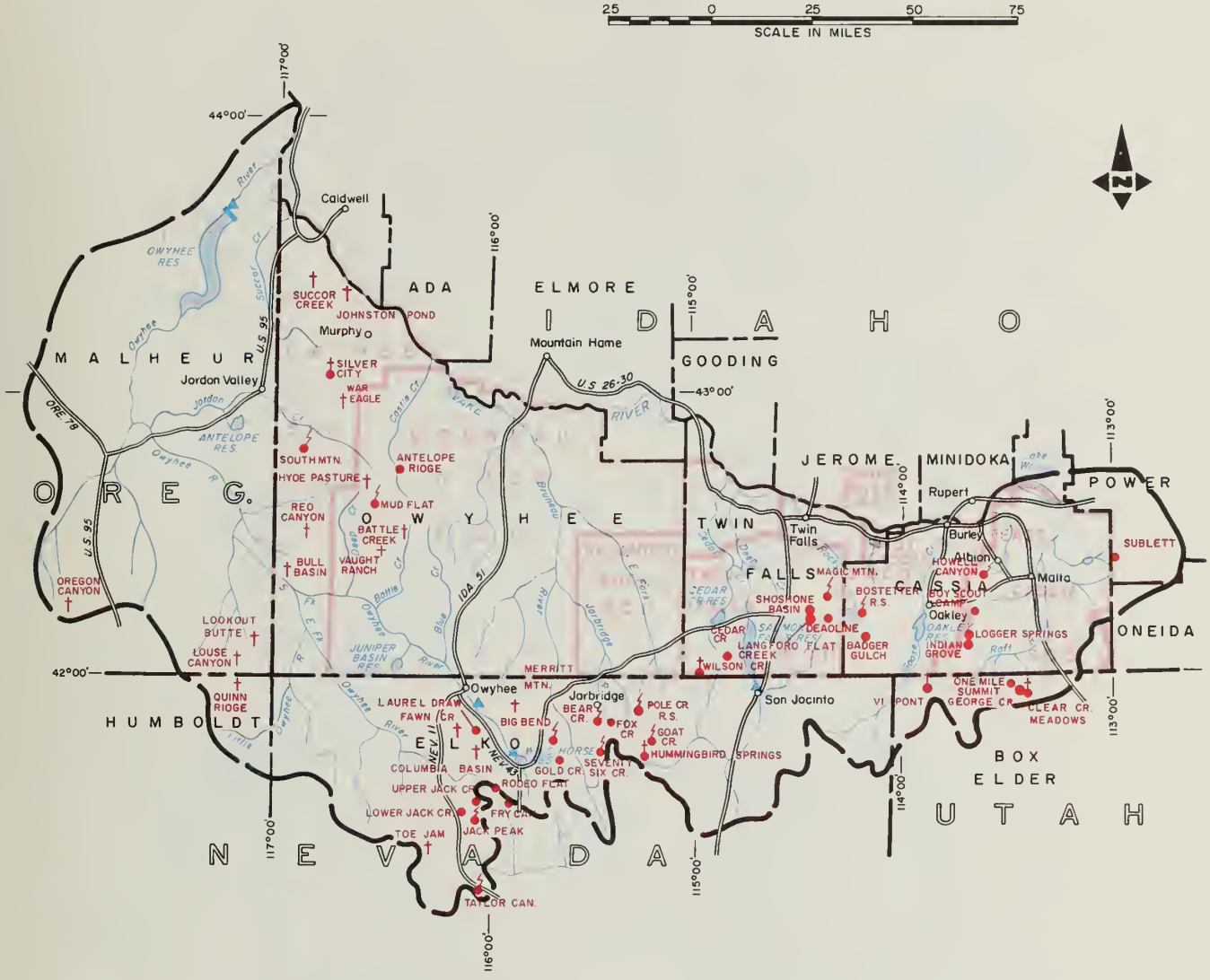
LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

USDA—SCS—FORT WORTH, TEXAS 1982 M7-OL-22023-2

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forcast Point
- Snow Course
- Snow Course and Automated Site
- Aeriol Snow Depth Gage

USDA—SCS—FORT WORTH, TEXAS 1982 M7-OL-22023-3

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elevation
		RAFT RIVER				
13C2	I	Boy Scout Camp	8	14S	24E	7740
13H2	U	Clear Creek Meadows	26	14N	14W	9420
13H5	U	Ceorge Creek	26	14N	14W	8840
13C1S	I	Howell Canyon	2	13S	24E	7980
13C4	I	Indian Crove	14	15S	23E	7560
13C3	I	Logger Springs	2	15S	23E	8120
13H1	U	One Mile Summit	17	14N	14W	7330
12C8	I	Sublett	17	12S	30E	5950
		GOOSE - TRAPPER CREEK				
14G3	I	Badger Culch	24	15S	19E	6660
14C1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670
		SALMON FALLS CREEK				
14C5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
15H13S	N	Coat Creek	31	46N	60E	8880
14C08	I	Langford Flat Creek	8	15S	18E	5980
14C2S	I	Magic Mountain	25	14S	18E	6880
14C6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500
		BRUNEAU RIVER				
15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S	N	Pole Creek Ranger Station	13	46N	59E	8330
15H3S	N	Seventy-six Creek	6	44N	58E	7100
		OWYHEE RIVER				
16C6	I	Antelope Ridge	3	9S	1W	6180
16C9A	I	Battle Creek	10	11S	1E	5720
15H4S	N	Big Bend	30	45N	56E	6700
16C10A	I	Bull Basin	29	12S	5W	5460
16H6A	N	Columbia Basin	31	44N	53E	6650
16H8A	N	Fawn Creek	2	45N	52E	7000
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	32	45N	56E	6600
16C5A	I	Hyde Pasture	31	8S	2W	5760
16H4S	N	Jacks Peak	21	42N	53E	8420
16F5A	I	Johnston Pond	5	4S	4W	6700
16H5S	N	Laurel Draw	20	45N	53E	6700
17C6A	O	Lookout Butte	2	40S	47E	5650
17C4A	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
15H20A	N	Merritt Mountain	10	46N	54E	7000
16C7S	I	Mud Flat	34	9S	2W	5730
17C5A	O	Oregon Canyon	8	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16C11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3	I	Silver City	7	5S	3W	6400
16C1S	I	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3S	5W	6100
15H9S	N	Taylor Canyon	35	39N	53E	6200
16H7A	N	Toe Jam	29	40N	50E	7700
16H2	N	Upper Jack Creek	9	42N	53E	7250
16C12A	I	Vaught Ranch	23	11S	1W	5830
16C13A	I	War Eagle	16	5S	3W	7720

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

USDA—SCS—FORT WORTH, TEXAS 1982 M17-OL-22023-3

UPPER SNAKE RIVER BASIN

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Automated Site
- Aerial Snow Depth Gage

USDA-SCS-FORT WORTH, TEXAS 1982 M7-OL-22023-4

INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
SNAKE RIVER-WYOMING						
10G4	Wy	Afton Ranger Station	30	32N	118W	6240
10F1	Wy	Arizona	3	46N	115W	6820
10E8	Wy	Aster Creek	44°17'		110°38'	7750
10F2S	Wy	Base Camp	20	46N	113W	7030
10F7S	Wy	Blackrock	4	44N	111W	8900
10G2S	Wy	Blind Bull	6	34N	115W	8650
10F14	Wy	Bryan Flat	9	38N	115W	6420
10G7	Wy	CCC Camp	9	29N	118W	7000
10G5S	Wy	Cottonwood Lake	25	31N	118W	7600
10E10S	Wy	Coulter Creek	44°10'		110°33'	7020
10F17	Wy	East Rim Divide	32	37N	111W	7930
10F28	Wy	Elbo Ranch	25	43N	115W	7100
10F6	Wy	Four Mile Meadows	35	45N	112W	7860
10E13	Wy	Glade Creek	12	48N	116W	7040
10F18	Wy	Greys Boundary	33	37N	118W	5720
10F19S	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7000
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9S	Wy	Lewis Lake Divide	44°12'		110°40'	7850
10F4	Wy	Moran	19	45N	114W	6750
10F3	Wy	Moran Bay	14	45N	116W	6810
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8S	Wy	Salt River Summit	32	29N	118W	7700
10E12	Wy	Snake River Station	9	48N	115W	6920
10F20	Wy	Snow King Mountain #3	4	40N	116W	7660
10E7	Wy	Thumb Divide	44°22'		110°34'	7980
10F9S	Wy	Togwotee Pass	28	44N	110W	9580
10F5	Wy	Turpin Meadows	14	45N	112W	6900
10G1A	Wy	Young's Ranch	26	34N	116W	6650
HENRY'S FORK RIVER						
11E9	I	Big Springs	4	13N	44E	6400
11E35S	M	Black Bear	27	15S	5E	7950
11E18	I	Black Canyon	11	13N	45E	7960
11E19	I	Black Moose	33	14N	45E	8160
11OE15S	Wy	Grassy Lake	18	48N	116W	7265
11E10S	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7630
11E14	I	Lucky Dog	2	13N	44E	6860
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	6980
11E8	I	Valley View	12	15N	43E	6680
11E36S	I	White Elephant	17	14N	43E	7710
TETON RIVER						
10F21A	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8000
10F25	Wy	Indian Meadows	33	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6720
10F23S	Wy	Phillips Bench	43°31'		110°55'	8200
11F2	I	Pine Creek Pass	24	3N	44E	6810
11F1	I	State Line	32	3N	46E	6660
10F24	Wy	Teton W. S.	43°30'		110°59'	7740

No.	State	Name	Sec. / Lat.	Twp. or And	Rge. / Long.	Elev
CAMAS-BEAVER CREEK						
11E11	I	Blue Ledge Mine	21	13N	38E	6900
12E3	I	Camp Creek	21	13N	36E	6580
11E17S	I	Crab Creek	21	13N	38E	6860
11E12	I	Kilgore	6	12N	39E	6320
MEDICINE LODGE CREEK						
12E4	I	Irving Creek	8	13N	33E	7280
12E5	I	Webber Creek	23	12N	32E	6700
WILLOW CREEK						
11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Lava Creek	27	1S	42E	7350
11F14	I	Mud Creek	4	2S	39E	7100
11F11S	I	Sheep Mountain	30	2S	41E	6570
11F5	I	Tex Creek	36	1N	41E	6650
BLACKFOOT RIVER						
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11F17	I	Blue Ridge	35	2S	39E	6780
11G22	I	Johnson Creek	4	9S	43E	6730
11G5S	I	Slug Creek Divide	15	10S	44E	7225
11G1S	I	Somsen Ranch	25	5S	43E	6800
11G19	I	Sulphur Peak	8	9S	43E	7070
11G23	I	Wood Canyon Divide	5	9S	43E	7450
FORT PORTNEUF RIVER						
12G7	I	Beaverdam Creek	22	10S	38E	6120
12G16	I	Cold Springs	15	7S	37E	7000
12G5	I	Dempsey Creek	18	10S	38E	6100
11G24	I	East Creek	26	10S	38E	7000
12G6	I	Lower Pebble	7	8S	38E	5780
12G1	I	Mink Creek	33	7S	34E	6410
12G20	I	North Putnam	29	5S	37E	7240
12G2	I	Pebble Creek	35	7S	37E	6400
12G14	I	Putnam	2	6S	37E	7220
11G17	I	Sedgwick Peak	30	10S	39E	7850
12G15	I	Toponce	23	6S	37E	6160
12G19	I	Twitchell Canyon	21	5S	37E	6300
12G17S	I	Wildhorse Divide	4	8S	34E	6490

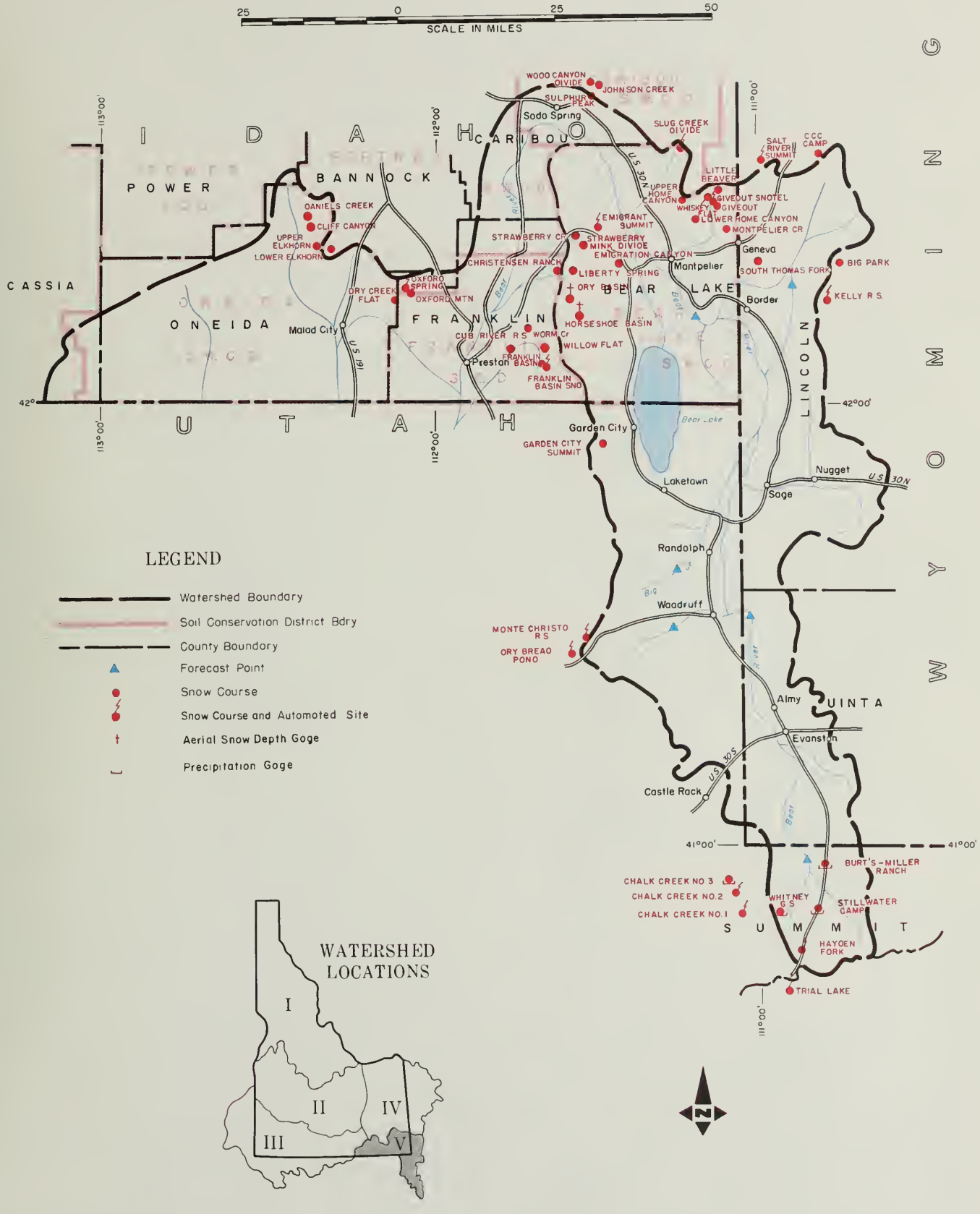
LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

USDA-SCS-FORT WORTH, TEXAS 1982 M7-OL-22023-4

GREAT BASIN



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Automoted Site
- Aerial Snow Depth Goge
- Precipitation Goge

USDA-SCS-FORT WORTH, TEXAS 1982 M-CL-22023-5

INDEX to SNOW COURSES

GREAT BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elevation
		BEAR RIVER				
10G11	Wy	Big Park	7	27N	117W	8620
11H13S	U	Dry Bread Pond	19	8N	4E	8350
11G7	I	Emigration Canyon	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burts-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	25	1N	9E	9400
10G12S	Wy	Kelly Ranger Station	1	26N	118W	8200
11H12P	U	Monte Cristo R. S.	4	8N	4E	8960
10G19	Wy	South Thomas Fork	27	27N	119W	7840
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	IN	9E	9300
		MONTPELIER CREEK				
11G16	I	Giveout	2	12S	45E	6840
11G25S	I	Giveout Snotel	2	12S	45E	6930
11G20	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G18	I	Montpelier Creek	14	12S	45E	6540
11G26	I	Upper Home Canyon	31	11S	45E	8560
11G21	I	Whiskey Flat	26	11S	45E	6960
		MINK CREEK				
11G11	I	Christensen Ranch	27	13S	41E	5560
11G14A	I	Dry Basin	30	13S	42E	7820
11G6S	I	Emigrant Summit	21	12S	42E	7390
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	13S	42E	8600
11G9	I	Strawberry Creek	9	13S	41E	5820
11G10	1	Strawberry Mink Divide	14	13S	41E	6720
		CUB RIVER				
11G12	I	Cub River Ranger Station	9	15S	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G2S	I	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620
		MALAD RIVER				
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	13S	37E	6360
12G11	I	Lower Elkhorn	30	12S	36E	6960
12G3	I	Oxford Mountain	27	13S	37E	6800
12G18S	I	Oxford Spring	27	13S	37E	6740
12G10	I	Upper Elkhorn	25	12S	35E	7140

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage
10J7P	Precipitation gage

USDA—SCS—FORT WORTH TEXAS 1982 M7-OL-22023-5

(DETACH HERE)

IMPORTANT NOTICE

WATER SUPPLY OUTLOOK FOR IDAHO

If you wish to continue to receive this publication, detach this page, sign your name in the space below, fold on the heavy line, staple or tape the folded page and mail. If more than one copy of the publication is desired, place the number in the box by your signature.

☐ Signed: _____

Suggestions, comments or remarks: _____

_____

_____

Print or type your name and address on back of this sheet, if it is not there already

(FOLD HERE)

RETURN IF NOT DELIVERED
UNITED STATES
DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
304 N. 8th. ST. ROOM 345
BOISE. IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF AGRICULTURE
AGR-101

U.S.MAIL

FIRST CLASS MAIL

SNOW SURVEY SUPERVISOR
SOIL CONSERVATION SERVICE
304 N. 8th ST. ROOM 345
BOISE, IDAHO 83702

(STAPLE OR TAPE HERE)

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
R[illegible]
304 N 8[illegible]
[illegible], IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U S DEPARTMENT OF
AGRICULTURE
AGR—01

U.S. MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LI[illegible] UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61[illegible]01

551.513
In36wi

Water Supply Outlook For Idaho

THE LIBRARY OF THE
JUL 5 1983
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES
NOAA, NATIONAL WEATHER SERVICE

AS OF
May 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snawfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Netwarks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Raom 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

PETER C. MEYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

A. KENNETH DUNN
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
PETER L. PALMER, Hydrologist
PAUL K. BROWN, JR., Electronics Technician
KATHERN G. WOOTTON, Statistical Assistant
SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR MAY 1, 1983

The May 1 snow surveys show little change in the snowpack condition from the first of April except in the Bear River drainage in the extreme southeastern part of the State where significant increases were reported. Snowpack conditions range from a low of 73 percent of average on the Clearwater River drainage in northern Idaho to a high of 174 percent of average on the Little Wood River drainage in south central Idaho. One exception is the Owyhee River drainage which shows 323 percent of normal.

Precipitation across Idaho for April averaged 95 percent of normal with the least amount being across the mid-portion of the State with the north and south being heavier. Grangeville had only 37 percent while Boise had 201 percent. The water year is at 128 percent of normal with a range of from 80 percent at Grangeville to 180 percent at Ketchum.

The temperature range for April was from near normal in the North to five degrees below normal at Twin Falls.

Water supplies are expected to be near normal to well above normal across southern Idaho and near to below normal in the northern part of the State. The Clearwater and Spokane river drainages in northern Idaho are forecast to be 79 percent and 80 percent respectively. Forecasts in the southern part of the State range from 85 percent of average for the Snake near Heise to 180 percent of average for Magic Reservoir inflow. The net inflow to Owyhee Reservoir in eastern Oregon is 220 percent of normal.

The combination of melting snow and near normal precipitation have kept soil moisture conditions near the saturation level in southern Idaho while soils in the northern part are beginning to dry out.

Most reservoir levels remain above normal for the first of May and many reservoirs are now beginning to fill with some smaller reservoirs already nearing capacity. Most all reservoirs are expected to fill by mid-June.

The potential for high volume flows and possible flooding continues to exist on several major streams and their tributaries in southern Idaho. Peak flows are estimated to be at or above flood stage on the Big Wood, Little Wood, Payette, Bruneau, Portneuf, Henrys Fork and Salmon River at Salmon.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

	Winter April 1983		Fall - Winter Nov. 82 - April 1983	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	2.17	+ .55	16.13	+ .12
Flathead	1.30	- .34	10.68	- 1.69
Clark Fork	.56	- .77	7.37	- 1.96
Pend Oreille-Spokane	1.50	- .32	20.68	+ 1.31
Upper Snake	1.70	- .09	12.16	+ .26
Snake River Plain	.95	- .04	7.06	+ .99
Salmon-Payette-Boise	1.71	+ .28	16.95	+ 3.73
Clearwater	1.42	- 1.70	16.22	- 4.78
Owyhee-Malheur	1.57	+ .82	9.77	+ 3.35

1/Preliminary analysis and data by the National Weather Service and Meteorlogical Service of Canada.

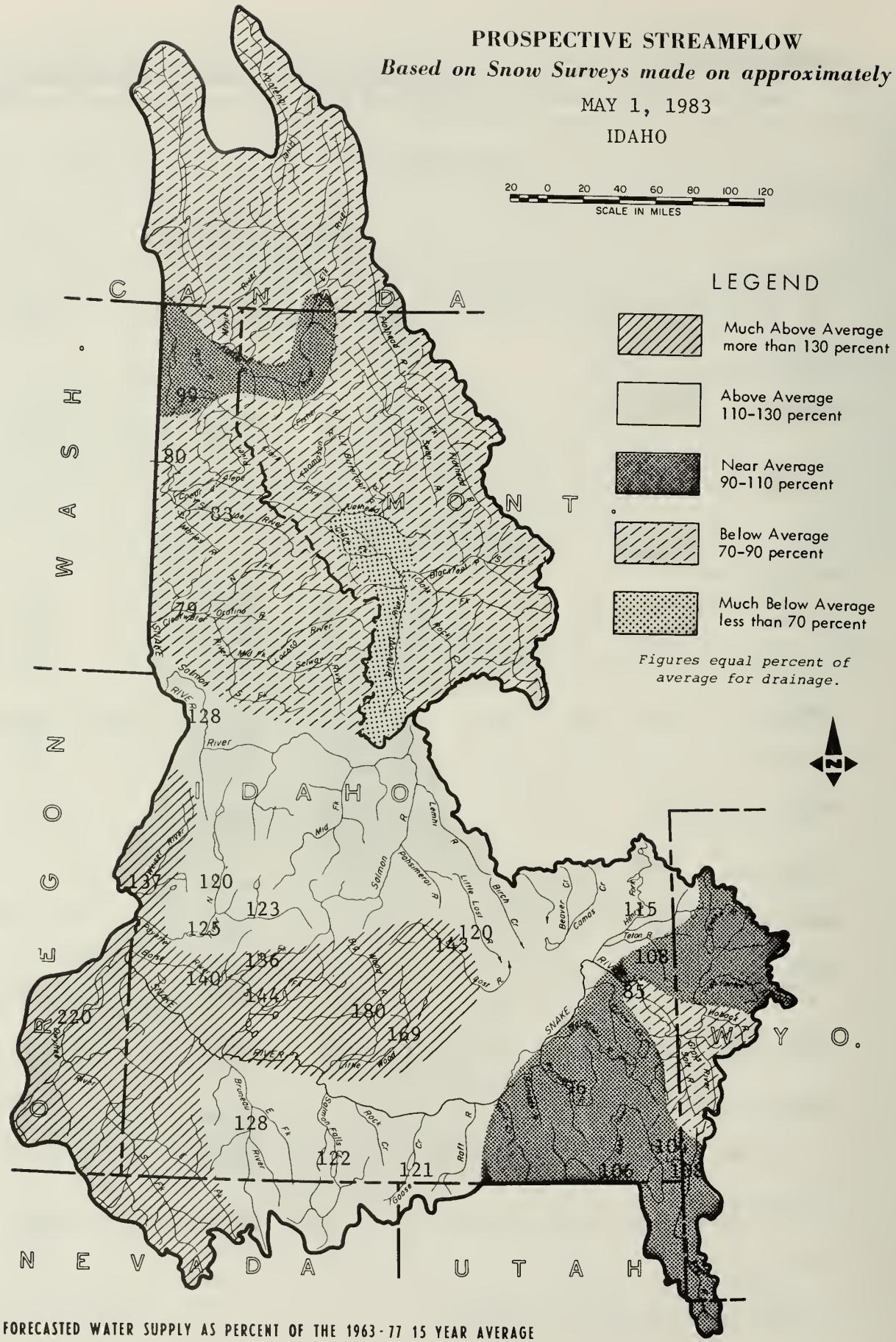
2/Departure from 15-year (1963-1977) drainage division average.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	7620	94	May-Sep	--	8116
		6520	93	May-Jul	--	6966
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	8960	73	May-Sep	--	12207
		7990	73	May-Jul	--	10945
Priest River						
Priest River 1/	(nr)	714	99	May-Sep	--	723
SPOKANE RIVER						
Post Falls 2/	(at)	1640	80	May-Sep	--	2052
		1560	80	May-Jul	--	1944
St. Joe River						
Calder	(at)	878	83	May-Sep	--	1053
		822	84	May-Jul	--	984
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	849	94	Apr-Sep	--	903
Palisades Inflow 3/		3477	90	Apr-Sep	--	3863
Heise 4/	(nr)	3240	85	May-Sep	--	3824
		2725	85	May-Jul	--	3206
Blackfoot 5/	(nr)	4710	91	May-Sep	--	5176
		3780	91	May-Jul	--	4143
Henrys Fork						
Ashton 6/	(nr)	720	114	May-Sep	--	634
		510	115	May-Jul	--	445
Rexburg 7/	(nr)	1580	114	May-Sep	--	1387
		1205	114	May-Jul	--	1055
Teton						
South Leigh Creek	(ab)	193	108	May-Sep	--	179
		138	108	May-Jul	--	128
Portneuf River						
Topaz	(at)	68	96	May-Sep	--	71
Oakley Reservoir Inflow		29	121	May-Sep	--	24
		25.5	121	May-Jul	--	21
Salmon Falls Creek						
San Jacinto	(nr)	77	122	May-Sep	--	63
		71	122	May-Jul	--	58
Bruneau River						
Hot Springs	(nr)	235	128	May-Sep	--	183
		219	128	May-Jul	--	171
Little Lost River						
Howe	(nr)	47	120	May-Sep	--	39
		35	121	May-Jul	--	29
Wet Creek	(bl)	44.5	120	May-Sep	--	37
		36	120	May-Jul	--	30
Big Lost River						
Howell Ranch	(at)	305	143	May-Sep	--	214
		274	145	May-Jul	--	189
		209	145	May-Jun	--	144
Mackay 8/	(nr)	273	143	May-Sep	--	191

(c) Assuming normal meteorological conditions.

+1963-1977 period.



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST [c] Thousand Acre Feet	THIS YEAR FORECAST [c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [+]
Big Wood River						
Magic Reservoir		412	180	May-Sep	--	229
Inflow 9/		383	180	May-Jul	--	213
Little Wood River						
Carey 10/	(nr)	135	169	May-Sep	--	80
		120	167	May-Jul	--	72
Boise River						
Twin Springs	(nr)	840	136	May-Sep	--	616
		770	138	May-Jul	--	559
Boise 11/	(nr)	1860	140	May-Sep	--	1326
		1700	141	May-Jul	--	1206
South Fork						
Anderson Dam 12/	(at)	736	144	May-Sep	--	511
		680	144	May-Jul	--	472
Owyhee River						
Cold Cr., Nv 13/	(nr)	45	200	Apr-Jul	--	22
Owyhee, Nv 13/	(nr)	155	194	Apr-Jul	--	80
Lake Owyhee		493	220	May-Sep	--	224
net inflow 14/		452	229	May-Jul	--	197
Payette River						
Horseshoe Bend 15/	(nr)	1955	125	May-Sep	--	1567
		1785	125	May-Jul	--	1428
North Fork						
Cascade 16/	(at)	575	120	May-Sep	--	480
		535	120	May-Jul	--	445
Banks 16/	(nr)	724	121	May-Sep	--	599
South Fork						
Lowman	(nr)	570	123	May-Sep	--	465
		500	123	May-Jul	--	406
Weiser River						
Weiser	(nr)	379	137	May-Jul	--	276
Salmon River						
Whitebird	(at)	8420	128	May-Sep	--	6581
		7520	128	May-Jul	--	5889
Clearwater River						
Spalding	(at)	5620	79	May-Sep	--	7125
		5120	78	May-Jul	--	6645
GREAT BASIN						
BEAR RIVER						
Harer	(at)	293	108	May-Sep	--	271
Montpelier Creek						
Montpelier	(nr)	12.5	104	May-Sep	--	12
Cub River						
Preston	(nr)	52	106	May-Sep	--	49
		47	107	May-Jul	--	44

1/Observed flow corrected for storage in Priest Lake.
2/Observed flow corrected for storage in Coeur d'Alene Lake.
3/Corrected for storage in Jackson Lake.
4/Corrected for storage in Jackson Lake and Palisades.
5/Corrected for storage in Jackson Lake, Palisades, Island Park, Henrys Lake, Grassy Lake and diversions between Heise and Blackfoot.
6/Corrected for storage in Henrys Lake and Island Park Reservoir.
7/Corrected for storage in Henrys Lake and Island Park, Grassy Lake & diversions between Ashton & Rexburg.
8/Observed flow corrected for storage in Mackay Reservoir.
9/Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine
10/Corrected for storage in Little Wood Reservoir.
11/Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
12/Corrected for storage in Anderson Ranch Reservoir.
13/Corrected for storage in Wildhorse Reservoir
14/From Bureau of Reclamation records of inflow.
15/Corrected for storage in Cascade and Deadwood Reservoirs.
16/Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions. *+1963-1977 period.*

RESERVOIR STORAGE (1,000 Ac. Ft.)

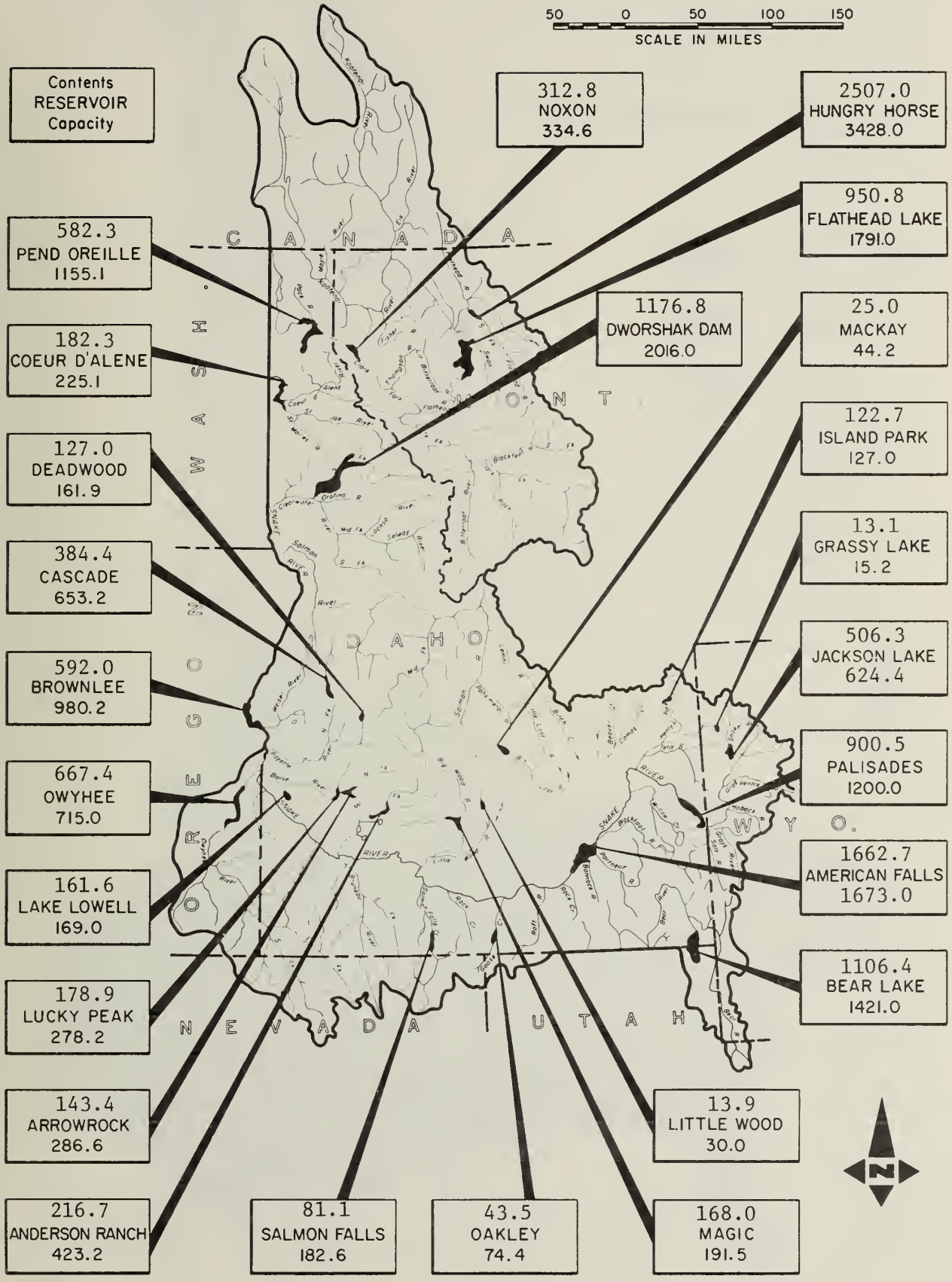
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2507.0	1884.0	1896.0
Flathead	1791.0	950.8	943.6	915.3
Pend Oreille	1155.1	582.3	516.6	483.0
Noxon	334.6	312.8	321.9	141.7
Spokane				
Coeur d'Alene	225.1	182.3	247.5	238.4
SNAKE BASIN				
Snake				
Jackson Lake	624.4	506.3	319.0	572.3
Palisades	1200.0	900.5	129.5	666.3
American Falls	1673.0	1662.7	1619.5	1488.4
Island Park	127.0	122.7	118.6	126.3
Grassy Lake	15.2	13.1	12.7	11.1
Brownlee	980.2	592.0	408.2	406.4
Goose-Trapper Creeks				
Oakley	74.4	43.5	28.8	37.8
Salmon Falls Creek				
Salmon Falls	182.6	81.1	55.4	81.0
Big Lost				
Mackay	44.2	25.0	34.3	34.0
Big Wood				
Magic	191.5	168.0	178.8	172.7
Little Wood				
Little Wood	30.0	13.9	15.0	24.5
Fish Creek				
Carey Valley	14.4	13.9	14.4	--
Boise				
Anderson Ranch	423.2	216.7	239.4	289.3
Arrowrock	286.6	143.4	129.1	213.2
Lucky Peak	278.2	178.9	50.6	134.1
Lake Lowell (Deer Flat)	169.0	161.6	161.8	151.2
Owyhee				
Owyhee	715.0	667.4	692.3	591.2
Payette				
Cascade	653.2	384.4	319.9	330.9
Deadwood	161.9	127.0	112.3	98.2
Weiser				
Mann Creek	11.1	9.4	11.2	--
Clearwater				
Dworshak	2016.0	1176.8	283.5	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1106.4	1003.7	1095.0

*Period of Record

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1983



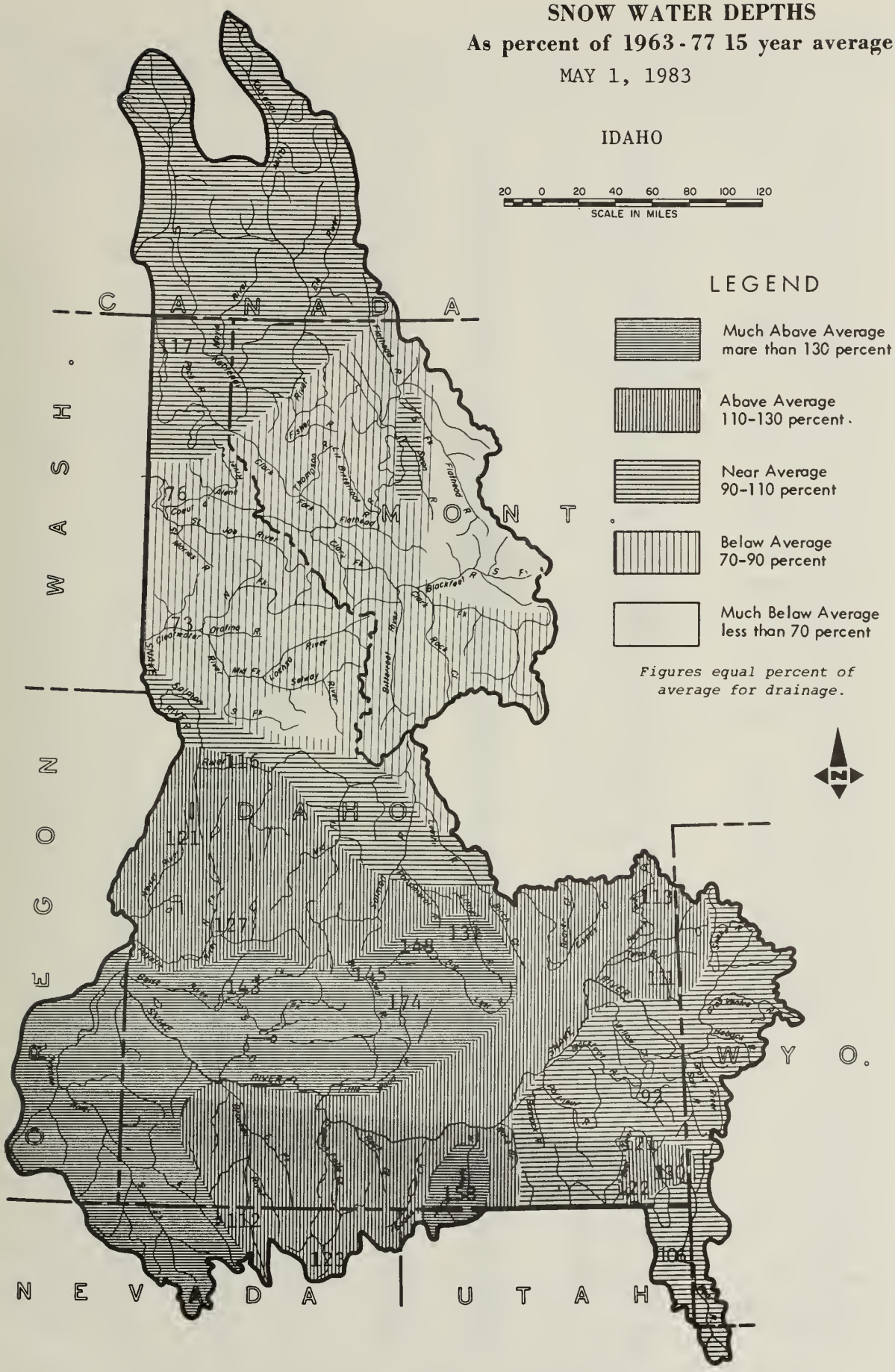
COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF	
		LAST YEAR	1963 77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	49	71	86
Pend Oreille River	132	65	78
Clark Fork River	90	59	74
Flathead River	42	75	84
Priest River	5 - 6	95	117
Spokane River	8 - 9	75	76
Hayden Creek	-	-	-
LOWER SNAKE RIVER BASIN			
Palouse River	-	-	-
Clearwater River	19 - 20	66	73
Salmon River	15 - 18	86	116
Lemhi River	-	-	-
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	4 - 6	98	131
Big Lost River	4	101	148
Fish Creek	-	-	-
Little Wood River	4	121	174
Big Wood River	10 - 11	96	145
Boise River	11 - 13	100	143
Canyon Creek	-	-	-
Payette River	12 - 15	92	127
Weiser River	1 - 3	98	121
Mann Creek	-	-	-
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	104	158
Goose-Trapper Creek	-	-	-
Salmon Falls Creek	4 - 5	117	123
Bruneau River	1	99	112
Owyhee River	1	143	323
Jordan Creek	-	-	-
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Reservoir	15	73	100
Camas-Beaver Creeks	-	-	-
Henrys Fork River	6 - 7	84	113
Teton River	7 - 9	81	111
Willow Creek	3	113	-
Blackfoot River	1 - 2	76	92
Portneuf River	-	-	-
GREAT BASIN			
Bear River - Upper	4	82	106
Bear River - Lower	14	72	110
Montpelier Creek	6	77	130
Mink Creek	1	85	121
Cub River	3	72	122
Malad River	-	-	-

SNOW WATER DEPTHS

As percent of 1963-77 15 year average

MAY 1, 1983



SNOW

DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average
Above Burke	Coeur d'Alene	4100	4/28	29	13.4	20.6	19.7*
Atlanta Summit	Boise	7600	4/26	114	49.0	--	36.6
Atlanta Townsite	Boise	5370	4/26	18	7.2	7.5	--
Bad Bear	Boise	4940	4/29	14	6.0	8.8	6.8
Banner Summit	Payette	7040	4/26	84	35.3	43.6	--
Beagle Springs (Mt)	Beaverhead	8850	4/29	36	11.5	--	--
Bear Basin	Little Salmon	5350	4/28	55	22.8	21.2	--
Bear Canyon	Big Lost	7900	4/27	69	27.0	28.1	18.9*
Bear Mountain	Clark Fork	5400	4/27	141	69.4	83.9	67.7*
Benton Meadow	Priest	2370	4/29	0	0.0	0.0	0.0*
Benton Spring	Priest	4920	4/29	39	19.5	17.7	16.7
Big Creek Summit	Salmon	6580	4/29	107	46.7	55.3	37.8
Big Springs	Henrys Fork	6400	4/29	38	16.8	20.6	17.7
Birch Creek	Willow	6800	4/28	16	6.2	0.0	--
Black Bear (Mt)	Madison	7950	4/28	104	48.5	59.6	--
Blue Ridge	Blackfoot	6780	4/28	53	24.3	24.5	--
Bogus Basin	Payette	6340	4/29	86	39.8	27.5	24.0*
Bogus Basin Road	Boise	5540	4/29	0	0.0	0.0	0.4*
Bone	Willow	6200	4/28	0	0.0	--	--
Boulder Creek	Weiser	5440	4/27	46	20.4	22.4	16.8
Breezy Saddle	Clearwater	5010	4/28	59	21.8	30.2	--
Brockman Station	Willow	6430	4/28	17	7.1	--	--
Brundage Mountain	Little Salmon	7560	4/29	133	62.0	65.4	52.4*
Bruno Creek	Squaw Creek	7920	4/29	51	20.4	--	--
Buck Meadows	Selway	5650	4/28	53	18.6	34.7	29.9*
Cayuse Airstrip	Clearwater	3500	4/28	0	0.0	0.8	1.0*
Coolwater Mountain	Lochsa	6030	4/28	89	32.7	49.3	35.5*
Copper Basin	Big Lost	7640	4/27	40	14.9	13.5	8.5*
Copper Ridge	Coeur d'Alene	4820	4/25	43	20.5	16.7	25.7
Couch Summit	Boise	6840	4/30	58	26.7	18.0	14.9*
Cozy Cove	Deadwood	5380	4/26	32	12.7	13.8	10.7*
Crater Meadows	Clearwater	5960	4/28	91	35.6	49.4	47.8
Crawford Ranger Sta.	Payette	4860	4/29	0	0.0	0.0	0.4
Crooked Fork	Lochsa	3610	4/29	0	0.0	7.8	3.5*
Cub River Ranger Sta.	Cub	5450	4/28	0	0.0	0.6	0.0
Darby Canyon (Wy)	Teton	8250	4/28	69	28.3	--	25.5*
Deadline	Salmon Falls	7400	5/3	63	29.9	21.9	21.7*
Deadline South	Salmon Falls	7450	5/3	79	37.4	24.1	--
Deadwood Airstrip	Deadwood	5360	4/26	34	13.3	14.2	8.6*
Deadwood Summit	Deadwood	6860	4/26	127	58.7	68.9	48.2*
Dollarhide Summit	Big Wood	8420	4/27	95	38.2	39.4	24.3*
Elk Butte	Clearwater	5550	4/28	62	23.8	32.4	34.1
Emigrant Summit	Bear	7390	4/28	74	30.1	35.3	24.9*
Fairview Guard Sta.	Little Lost	6750	4/28	0	0.0	0.0	--
Fish Lake Airstrip	Lochsa	5650	4/28	77	29.0	45.2	41.4*
Fishpole Lake	Big Lost	9300	4/27	99	40.7	--	--
Forty-nine Meadows	Clearwater	4830	4/28	54	20.6	28.0	26.9
Freds Mountain (Wy)	Teton	8150	4/29	77	29.7	34.9	21.1*
Galena	Big Wood	7440	5/2	54	23.1	27.6	15.9
Galena Snotel	Big Wood	7470	5/2	67	28.3	29.2	--
Galena Summit	Big Wood	8780	5/2	88	35.2	36.2	26.9
Garfield Ranger Sta.	Little Wood	6560	4/27	27	10.9	6.4	2.6*
Gibbons Pass (Mt)	Bitterroot	7100	4/28	57	25.0	31.6	25.3
Giveout	Montpelier	6860	4/28	30	11.1	16.4	6.9*
Giveout Snotel	Montpelier	6930	4/28	21	7.5	--	--
Goat Creek (Nv)	Salmon Falls	8880	5/3	68	26.8	26.5	20.8
Goat Lake	Clearwater	6500	4/28	100	39.6	54.4	51.9*
Graham Guard Station	Boise	5690	4/26	33	14.1	16.3	--
Graham Ranch	Big Wood	6270	5/2	40	17.5	18.4	9.2*
Granite Peak	St. Joe	6000	4/28	99	37.0	50.0	47.6*
Grassy Lake (Wy)	Henrys Fork	7265	4/29	85	37.8	48.2	36.4
Hemlock Butte	Clearwater	5810	4/28	96	37.8	55.6	52.4
Hilts Creek	Little Lost	8000	4/29	51	18.4	21.0	--
Heart Lake Trail (Mt)	Clark Fork	4800	4/30	20	9.0	24.2	23.8
Hoodoo Basin (Mt)	Clark Fork	6000	4/30	96	45.7	68.5	55.6*
Hoodoo Creek (Mt)	Clark Fork	5900	4/30	90	41.4	61.8	52.0
Howell Canyon	Marsh Creek	7980	5/2	80	37.4	36.1	23.7*
Humboldt Gulch	Coeur d'Alene	4250	4/28	21	11.0	14.4	--
Hyndman Creek	Big Wood	7440	4/27	48	19.0	18.3	--
Idaho City Townsite	Boise	4000	4/29	0	0.0	0.0	--
Indian Meadows	Teton	8240	4/28	110	48.2	53.1	39.9*
Island Park	Henrys Fork	6290	4/29	32	14.4	15.7	11.4

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE			Elevation	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average
Jackpine Creek	(Wy)	Teton	7350	4/28	62	25.0	26.1	24.1*
Jackson Peak		Boise	7070	4/26	94	39.4	42.1	26.8*
Lake Fork		Payette	5290	4/30	32	12.9	18.0	14.1*
Lava Creek		Willow	7350	4/28	42	17.6	--	--
Lemhi Pass	(Mt)	Beaverhead	7480	4/29	15	5.0	11.3	9.2
Lemhi Ridge	(Mt)	Beaverhead	8100	4/29	26	8.6	13.9	10.6*
Little Beaver		Montpelier	6970	4/28	38	14.0	18.6	11.4*
Lolo Pass		Lochsa	5240	4/29	34	15.8	33.4	31.4
Lookout		Coeur d'Alene	5140	4/28	69	30.6	40.4	35.4
Lost Garfield		Little Lost	6600	4/28	0	0.0	0.0	0.0*
Lost Horse	(Mt)	Bitterroot	5940	4/27	62	26.8	45.2	35.2
Lost Lake		Clearwater	6110	4/28	123	49.4	63.6	62.5
Lost-Wood Divide		Big Lost	7900	4/27	74	30.0	32.8	24.8*
Lower Home Canyon		Montpelier	7640	4/28	36	12.6	16.8	11.1*
Lower Sands Creek		Coeur d'Alene	3120	4/25	31	13.1	15.9	18.3
Magic Mountain		Rock Creek	6880	5/3	54	22.1	22.3	18.8*
Mascot Mine		Big Wood	7780	4/27	57	22.4	22.9	15.5*
McRenolds Reservoir		Teton	6720	4/28	51	19.0	--	19.8*
Mill Creek Summit		Salmon	8800	4/29	71	28.6	35.9	25.9*
Montpelier Creek		Montpelier	6540	4/28	10	4.2	3.4	1.2*
Moonshine		Little Lost	7440	4/28	31	11.0	10.3	9.6*
Moores Creek Summit		Boise	6100	4/29	93	44.0	43.5	32.6
Moose Creek		North Fork Salmon	6200	4/29	37	14.6	21.2	16.6*
Morgan Creek		Salmon	7600	4/28	37	14.4	19.7	13.9
Mountain Meadows		Selway	6360	4/28	41	13.1	27.0	26.3*
Mount Baldy		Big Wood	8920	4/26	96	36.2	38.4	23.6*
Mud Creek		Willow	7100	4/28	69	29.1	28.4	--
Muldoon		Little Wood	6320	4/27	9	3.3	0.0	0.6*
Nez Perce Pass	(Mt)	Bitterroot	6570	4/25	29	12.0	24.1	19.0
Packsaddle Spring		Teton	8200	4/28	83	34.0	--	--
Phillips Bench	(Wy)	Teton	8200	4/28	77	30.0	46.0	31.5*
Pierce Ranger Sta.		Clearwater	3080	4/29	0	0.0	0.0	1.9
Pine Creek Pass		Teton	6810	4/29	35	15.1	22.0	14.8
Pole Creek Ranger Sta.		Jarbidge	8360	5/3	68	28.4	29.1	25.8*
Road Creek		Boise	5380	4/27	0	0.0	--	--
Rock Flat Summit		Payette	5310	4/28	52	23.0	21.5	17.9
Sage Creek Saddle		Hayden	4080	4/26	22	9.1	--	--
Savage Pass		Lochsa	6170	4/29	54	21.7	40.3	29.3*
Sawmill Canyon		Little Lost	7000	4/29	14	5.4	6.3	3.8*
Sawtell Mountain		Henrys Fork	8720	4/29	116	51.7	56.4	37.1*
Schweitzer Basin		Pend Oreille	6090	4/28	131	69.5	66.4	--
Schweitzer Bowl		Pend Oreille	4800	4/28	79	36.3	40.1	26.8*
Schweitzer Ridge		Pend Oreille	6200	4/28	126	58.7	61.3	47.5*
Secesh Summit		Payette	6520	4/30	91	42.4	55.7	36.9*
Shanghai Summit		Clearwater	4570	4/28	38	13.2	25.2	23.1
Sheep Mountain		Willow	6570	4/28	33	12.8	--	--
Sherwin		St. Maries	3200	4/29	0	0.0	10.0	7.2*
Skitwish Ridge		Coeur d'Alene	5110	4/25	68	32.1	--	--
Slug Creek Divide		Blackfoot	7230	4/27	43	15.6	21.2	17.0*
Smith Creek		Kootenai	4800	4/28	106	51.0	58.0	47.4
Soldier Ranger Sta.		Big Wood	5740	4/30	14	6.9	5.7	1.1*
Somsen Ranch		Willow Creek	6840	4/27	36	14.5	18.3	--
South Mountain		Jordan-Owyhee	6500	5/1	52	22.9	16.0	7.1*
Squaw Flat		Weiser	6240	4/30	73	32.8	30.4	--
Squaw Meadow		Payette	5900	4/30	89	47.4	53.7	36.1*
State Line		Teton	6660	4/29	32	13.2	14.9	10.7
Stickney Mill		Big Lost	7430	4/27	40	14.8	11.8	6.5*
Swede Peak		Little Wood	7640	4/27	64	26.5	21.3	16.7*
Targhee Pass		Henrys Fork	6980	4/29	36	14.2	17.3	16.2*
Teton Pass W.S.	(Wy)	Teton	7740	4/28	73	30.2	38.2	28.9*
Trinity Mountain		Boise	7770	4/26	129	61.7	63.3	44.1*
Twelve Mile Creek	(Mt)	Bitterroot	5600	4/27	21	8.2	--	--
Twin Lakes	(Mt)	Bitterroot	6510	4/27	79	35.0	--	--
Upper Home Canyon		Montpelier	8560	4/28	71	27.6	35.3	24.5*
Valley View		Henrys Fork	6680	4/29	39	16.3	21.1	14.5
Vienna Mine		Salmon	8960	4/27	108	47.6	58.6	39.9*
West Branch		Weiser	5560	4/27	53	24.0	25.9	--
Wet Creek Summit		Little Lost	7680	4/29	52	19.1	17.4	13.8*
Whiskey Flat		Montpelier	6960	4/28	20	7.8	9.6	4.5*
White Elephant		Henrys Fork	7710	4/29	74	32.0	38.0	--
Willow Flat		Cub	6070	4/26	26	9.6	13.7	5.5*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOTEL[1/]

Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulative) (inches)
Atlanta Summit	Boise	5/1	Not Available	49.7
Banner Summit	Payette	5/1	34.2	40.5
Bear Basin	Little Salmon	5/1	10.3	Not Available
Bear Canyon	Big Lost	5/1	27.2	33.7
Bear Mountain	Clark Fork	5/1	47.7	78.2
Bear Saddle	Mann Creek	5/1	9.7	42.4
Bennett Mountain	Canyon Creek	5/1	27.6	33.4
Big Creek Summit	Salmon	5/1	45.0	50.3
Bostetter Ranger Station	Trapper	5/1	37.2	18.7
Cozy Cove	Deadwood	5/1	14.8	34.6
Crab Creek	Camas-Beaver	5/1	26.0	29.7
Deadwood Summit	Deadwood	5/1	69.6	63.1
Dollarhide Summit	Big Wood	5/1	40.2	42.1
Elk Butte	Clearwater	5/1	37.1	48.4
Emigrant Summit	Bear	5/1	36.3	34.5
Franklin Basin	Cub	5/1	37.7	36.3
Galena	Big Wood	5/1	26.5	27.7
Galena Summit	Big Wood	5/1	30.0	33.3
Garfield Ranger Station	Little Wood	5/1	13.7	23.5
Giveout	Montpelier	5/1	8.9	13.7
Graham Guard Station	Boise	5/1	14.2	32.8
Hilts Creek	Little Lost	5/1	22.4	22.1
Howell Canyon	Marsh Creek	5/1	32.8	36.8
Humboldt Gulch	Coeur d'Alene	5/1	5.3	40.8
Hyndman	Big Wood	5/1	19.4	25.7
Island Park	Henrys Fork	5/1	15.3	26.0
Jackson Peak	Boise	5/1	43.2	46.9
Lolo Pass	Lochsa	5/1	6.2	33.8
Lookout	Coeur d'Alene	5/1	28.5	42.9
Lost Lake	Clearwater	5/1	60.8	62.0
Lost-Wood Divide	Big Lost	5/1	35.5	36.3
Magic Mountain	Rock Creek	5/1	24.0	29.4
Meadow Lake	Lemhi	5/1	25.8	23.3
Mill Creek Summit	Salmon	5/1	24.8	26.3
Moonshine	Little Lost	5/1	14.1	18.9
Moores Creek Summit	Boise	5/1	47.4	50.1
Moose Creek	North Fork Salmon	5/1	15.8	23.2
Morgan Creek	Salmon	5/1	14.8	19.2
Mosquito Ridge	Coeur d'Alene	5/1	39.3	50.9
Mountain Meadows	Selway	5/1	20.1	27.0
Mud Flat	Owyhee	5/1	Not Available	Not Available
Oxford Spring	Malad	5/1	10.2	24.2
Prairie	Boise	5/1	0.0	26.1
Savage Pass	Lochsa	5/1	21.3	29.2
Schweitzer Basin	Pend Oreille	5/1	70.2	52.3
Secesh Summit	Payette	5/1	46.9	Not Available
Shanghai Summit	Clearwater	5/1	15.9	40.4
Sheep Mountain	Willow	5/1	Not Available	21.8
Sherwin	St. Maries	5/1	0.0	33.4
Slug Creek Divide	Blackfoot	5/1	20.1	24.8
Somsen Ranch	Willow Creek	5/1	12.1	19.8
South Mountain	Jordan-Owyhee	5/1	30.7	37.0
Squaw Flat	Weiser	5/1	41.6	45.0
Stickney Mill	Big Lost	5/1	13.2	17.1
Sunset	Coeur d'Alene	5/1	34.0	Not Available
Swede Peak	Little Wood	5/1	24.1	33.8
Trinity Mountain	Boise	5/1	59.6	60.6
Vienna Mine	Salmon	5/1	49.5	47.1
West Branch	Weiser	5/1	25.9	44.3
White Elephant	Henrys Fork	5/1	38.0	41.7
Wildhorse Divide	Portneuf	5/1	6.6	30.1

1/ Data readings as reported by automated Snotel System.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation , navigation , mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

551.573
Un36wi

Water Supply Outlook For Idaho

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES
NOAA, NATIONAL WEATHER SERVICE

THE LIBRARY OF THE
JUL 21 1983
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

AS OF
June 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originotes as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These meosurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from Januory 1 through June 1 in cooperation with stote water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Aloska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montano	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federol Bldg., 125 South State St., Salt Loke City, Utah 84138
Washington	360 U. S. Court House, Spokone, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

PETER C. MEYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

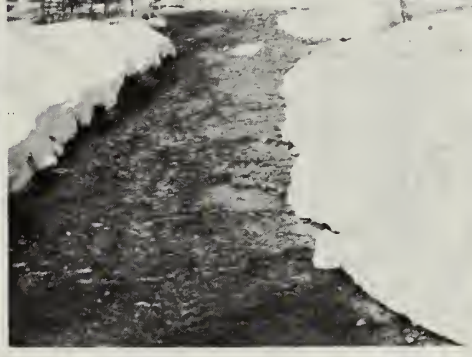
In Cooperation with

A. KENNETH DUNN
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
PETER L. PALMER, Hydrologist
PAUL K. BROWN, JR., Electronics Technician
KATHERN G. WOOTTON, Statistical Assistant
SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR JUNE 1, 1983

The June snow measurements for Idaho show that the snowpack varies in different degrees throughout the State. In northern and central Idaho it is below or near normal, while in the southern portion of the State it is well above average.

Many streams are nearing capacity flow while some are out of their banks. This condition is primarily due to the above normal temperatures the latter part of May and the heavy snowpack accumulation. These high waters can be expected through most of June with peaks expected to be slightly lower than those experienced near June 1, 1983.

Water supplies are expected to be excellent in most areas, and the carry-over in most reservoirs will probably be good next fall.

Precipitation across Idaho for May averaged 82 percent of normal with only southern Idaho above. The range was from 30 percent at Salmon to 154 percent at Pocatello. Most of the rain was in the first half of the month.

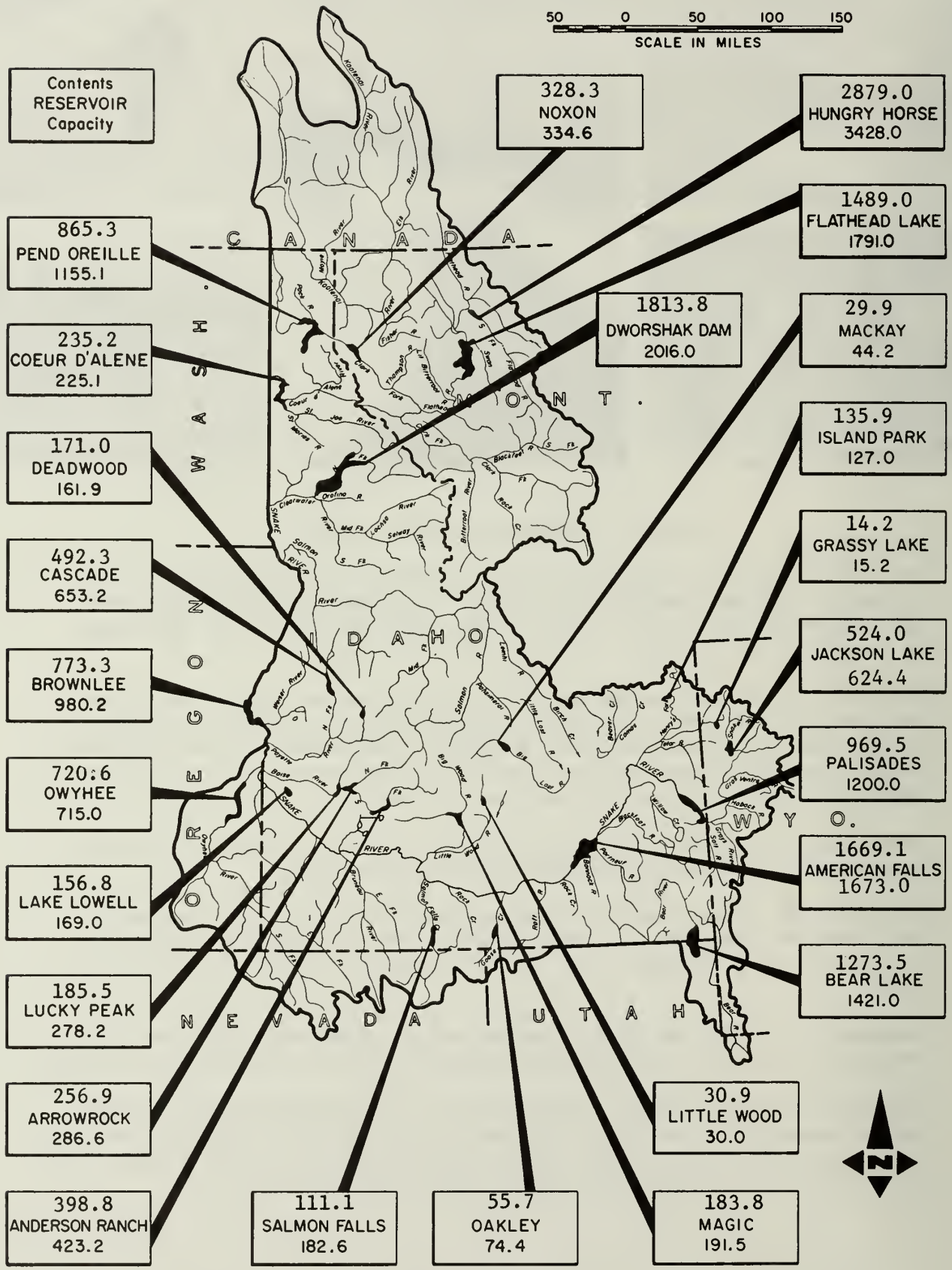
Temperatures across the State averaged below normal with the first two-thirds of the month well below normal and the last third well above normal.

Access to some areas above 7,000 feet in the southern part of the State may be hampered by snow until late June or early July. It is advised that contact be made with the local Forest Service office to obtain current conditions prior to attempting to access high elevation areas.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JUNE 1, 1983



SNOW

DRAINAGE BASIN and or SNOW COURSE NAME & DRAINAGE		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average
Atlanta Summit	Boise	7600	5/31	75	38.7	39.2	20.5*
Atlanta Townsite	Boise	5370	5/31	0	0.0	0.0	--
Bear Canyon	Big Lost	7900	6/2	24	11.5	--	4.1*
Big Creek Summit	Salmon	6580	5/28	62	30.7	36.7	18.6
Bogus Basin	Payette	6340	6/1	32	16.2	0.0	3.5*
Breezy Saddle	Clearwater	5010	5/31	0	0.0	--	--
Brundage Mountain	Little Salmon	7560	6/3	82	46.2	49.2	36.9*
Coolwater Mountain	Lochsa	6030	5/31	40	16.7	34.7	16.4*
Copper Basin	Big Lost	7640	6/2	0	0.0	--	--
Cozy Cove	Deadwood	5380	5/31	0	0.0	0.0	--
Crater Meadows	Clearwater	5960	5/31	44	26.4	37.8	32.0*
Crawford Ranger Sta.	Payette	4860	5/28	0	0.0	0.0	--
Deadwood Airstrip	Deadwood	5360	5/31	0	0.0	0.0	--
Deadwood Summit	Deadwood	6860	5/31	75	40.1	48.0	--
Dollarhide Summit	Big Wood	8420	6/2	54	29.6	30.1	--
Elk Butte	Clearwater	5550	5/31	0	0.0	6.8	10.7*
Fishpole Lake	Big Lost	9300	6/2	67	33.4	--	--
Freds Mountain Wy	Teton	8150	5/31	47	21.6	20.0	--
Galena	Big Wood	7440	5/31	0	0.0	0.0	2.6*
Galena Summit	Big Wood	8780	5/31	42	20.0	24.0	13.9*
Garfield Ranger Sta.	Little Wood	6560	6/2	0	0.0	--	--
Goat Lake	Clearwater	6500	5/31	62	27.4	--	36.8*
Graham Guard Sta.	Boise	5690	5/31	0	0.0	0.0	--
Graham Ranch	Big Wood	6270	5/31	0	0.0	1.4	--
Granite Peak	St. Joe	6000	5/31	59	24.6	35.8	31.5*
Hemlock Butte	Clearwater	5810	5/31	40	18.2	35.6	30.9*
Jackson Peak	Boise	7070	5/31	52	26.4	26.6	11.9*
Lake Fork	Payette	5290	5/28	0	0.0	0.0	--
Lookout	Coeur d'Alene	5140	6/1	4	2.4	18.2	15.0*
Lost Lake	Clearwater	6110	5/31	81	36.0	49.6	46.4
Lost-Wood Divide	Big Lost	7900	6/2	25	12.3	--	--
Mascot Mine	Big Wood	7780	6/2	15	6.7	--	--
Moores Creek Summit	Boise	6100	6/1	46	24.4	24.2	12.5
Muldoon	Little Wood	6320	6/2	0	0.0	--	--
Pine Creek Pass	Teton	6810	6/1	0	0.0	--	--
Schweitzer Basin	Pend Oreille	6090	5/31	64	36.0	--	--
Schweitzer Bowl	Pend Oreille	4800	5/31	0	0.0	9.3	--
Schweitzer Ridge	Pend Oreille	6200	5/31	55	30.6	41.8	--
Secesh Summit	Payette	6520	5/28	50	25.8	35.2	--
Shanghai Summit	Clearwater	4570	5/31	0	0.0	0.0	--
Squaw Meadow	Payette	5900	5/28	47	25.1	34.0	15.3*
State Line	Teton	6660	6/1	0	0.0	--	--
Stickney Mill	Big Lost	7430	6/2	0	0.0	--	--
Swede Peak	Little Wood	7640	6/2	8	2.7	--	--
Trinity Mountain	Boise	7770	5/31	92	50.4	42.7	25.7*
Willow Flat	Cub	6070	5/27	0	0.0	0.0	--
			SUPPLEMENTAL MEASUREMENTS				
December 15, 1982							
Buck Meadows	Selway	5660	12/15	38	8.0	--	--
Kruze Meadow	Clearwater	4780	12/15	19	3.8	--	--
Moores Creek Summit	Boise	6100	12/16	58	14.0	--	--
Webb Creek	Clearwater	4720	12/15	21	3.9	--	--
January 15, 1983							
Atlanta Summit	Boise	7600	1/13	79	25.7	--	--
Atlanta Townsite	Boise	5370	1/13	38	9.5	0.0	--
Bad Bear	Boise	4940	1/17	33	9.4	11.4	--
Bogus Basin	Boise	6340	1/17	55	19.0	14.3	--
Bogus Basin Road	Boise	5540	1/17	23	7.8	6.5	--
Crooked Fork	Lochsa	3610	1/13	25	7.0	7.2	--
Fish Lake Airstrip	Lochsa	5650	1/13	63	17.2	22.7	--
Galena	Big Wood	7440	1/14	49	14.6	16.2	--
Galena Summit	Big Wood	8780	1/14	57	16.0	19.3	--
Graham Guard Station	Boise	5690	1/13	40	11.8	--	--
Hemlock Butte	Clearwater	5810	1/13	79	22.2	28.1	--
Idaho City Townsite	Boise	4000	1/17	16	5.1	7.2	--
Jackson Peak	Boise	7070	1/13	71	22.9	--	--
Lolo Pass	Lochsa	5240	1/13	47	13.7	14.6	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME & DRAINAGE	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average

SUPPLEMENTAL MEASUREMENTS (Continued)

Moores Creek Summit	Boise	6100	1/12	71	24.0	20.9	--
Savage Pass	Lochsa	6170	1/13	52	14.2	--	--
Shanghai Summit	Clearwater	4570	1/13	45	11.7	15.7	--
Trinity Mountain	Boise	7770	1/13	86	31.1	--	--
Vienna Mine	Salmon	8960	1/13	77	24.6	--	--
February 15, 1983							
Atlanta Summit	Boise	7600	2/14	102	32.6	--	--
Atlanta Townsite	Boise	5280	2/14	44	13.1	--	--
Bad Bear	Boise	4940	2/15	46	13.5	--	--
Bogus Basin	Boise	6340	2/15	83	28.5	18.7	--
Bogus Basin Road	Boise	5540	2/15	30	10.6	9.5	--
Crooked Fork	Clearwater	3610	2/15	32	8.8	13.3	--
Fish Lake Airstrip	Lochsa	5650	2/14	81	20.8	34.3	--
Galena	Big Wood	7440	2/15	68	18.7	21.2	--
Galena Summit	Big Wood	8780	2/15	74	21.1	24.4	--
Graham Guard Sta.	Boise	5690	2/14	52	15.5	--	--
Hemlock Butte	Clearwater	5810	2/14	99	27.9	41.5	--
Idaho City Townsite	Boise	4000	2/15	21	6.8	--	--
Jackson Peak	Boise	7070	2/14	85	27.9	--	--
Lolo Pass	Clearwater	5240	2/15	60	17.7	26.5	--
Moores Creek Summit	Boise	6100	2/15	96	32.8	--	--
Shanghai Summit	Clearwater	4570	2/14	60	15.0	22.3	--
Trinity Mountain	Boise	7770	2/14	112	39.0	--	--
Vienna Mine	Salmon	8960	2/14	97	31.2	--	--
March 15, 1983							
Above Burke	Coeur d'Alene	4100	3/17	38	15.2	20.0	--
Atlanta Summit	Boise	7600	3/15	126	42.0	41.7	--
Atlanta Townsite	Boise	5370	3/15	35	13.1	13.6	--
Bad Bear	Boise	4940	3/14	39	14.5	17.1	--
Bogus Basin	Boise	6340	3/14	88	33.7	26.7	--
Bogus Basin Road	Boise	5540	3/14	7	2.0	--	--
Crooked Fork	Lochsa	3610	3/14	24	8.3	13.1	--
Elk Butte	Clearwater	5550	3/15	82	27.2	34.6	--
Fish Lake Airstrip	Lochsa	5650	3/15	91	27.4	41.9	--
Fourth of July Summit	Coeur d'Alene	3200	3/15	0	0.0	5.5	--
Galena	Big Wood	7440	3/16	77	25.2	23.3	--
Galena Summit	Big Wood	8780	3/16	97	30.6	28.5	--
Graham Guard Sta.	Boise	5690	3/15	48	17.3	--	--
Hemlock Butte	Clearwater	5810	3/15	109	35.8	52.4	--
Humboldt Gulch	Coeur d'Alene	4250	3/17	30	10.8	15.0	--
Idaho City Townsite	Boise	4000	3/14	6	1.8	6.9	--
Jackson Peak	Boise	7070	3/15	100	36.7	36.9	--
Lolo Pass	Lochsa	5240	3/14	55	20.3	31.0	--
Lookout	Coeur d'Alene	5140	3/17	76	29.0	35.0	--
Lost Lake	Clearwater	6110	3/15	134	43.6	55.0	--
Moores Creek Summit	Boise	6100	3/14	106	38.4	40.4	--
Pierce Ranger Sta.	Clearwater	3080	3/14	8	2.4	12.1	--
Prairie	Boise	4800	3/15	0	0.0	6.1	--
Savage Pass	Lochsa	6170	3/15	59	20.9	33.5	--
Shanghai Summit	Clearwater	4570	3/15	55	17.4	27.0	--
Sherwin	St. Maries	3200	3/11	18	5.6	15.0	--
Trinity Mountain	Boise	7770	3/15	135	49.7	52.0	--
Vienna Mine	Salmon	8960	3/15	123	42.1	47.6	--
April 15, 1983							
Atlanta Summit	Boise	7600	4/14	125	49.7	53.0	--
Atlanta Townsite	Boise	5370	4/14	32	13.6	--	--
Bad Bear	Boise	4940	4/15	34	16.0	17.8	--
Bogus Basin	Boise	6340	4/15	100	49.3	--	--
Elk Butte	Clearwater	5550	4/14	81	28.6	38.8	--
Fish Lake Airstrip	Lochsa	5650	4/14	97	30.0	45.4	--
Fourth of July Summit	Coeur d'Alene	3200	4/14	0	0.0	1.6	--
Galena	Big Wood	7440	4/14	72	27.2	29.0	--
Galena Summit	Big Wood	8780	4/14	91	36.0	38.2	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME & DRAINAGE	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average
SUPPLEMENTAL MEASUREMENTS (Continued)						
Graham Guard Sta.	Boise	5690	4/14	46	18.6	--	--
Hemlock Butte	Clearwater	5810	4/14	119	42.6	55.4	--
Jackson Peak	Boise	7070	4/14	104	41.7	43.6	--
Lolo Pass	Lochsa	5240	4/18	50	20.9	35.4	--
Lookout Pass	Coeur d'Alene	5140	4/14	84	34.8	41.4	--
Lost Lake	Clearwater	6110	4/14	146	51.4	64.4	--
Moores Creek Summit	Boise	6100	4/15	106	46.2	44.0	--
Prairie	Boise	4800	4/15	0	0.0	1.2	--
Savage Pass	Lochsa	6170	4/15	66	23.3	--	--
Shanghai Summit	Clearwater	4570	4/14	57	18.4	30.2	--
Trinity Mountain	Boise	7770	4/14	145	58.8	63.4	--
Vienna Mine	Salmon	8960	4/14	114	46.9	59.9	--
May 15, 1983							
Atlanta Summit	Boise	7600	5/13	113	50.3	48.5	--
Bogus Basin	Boise	6340	5/16	79	38.2	23.0	--
Crater Meadows	Clearwater	5960	5/13	86	33.7	48.2	--
Elk Butte	Clearwater	5550	5/13	53	20.6	24.2	--
Galena	Big Wood	7440	5/16	45	19.8	16.2	--
Galena Summit	Big Wood	8780	5/16	81	33.6	33.2	--
Graham Guard Sta.	Boise	5690	5/13	11	4.5	--	--
Graham Ranch	Big Wood	6270	5/16	26	11.8	--	--
Hemlock Butte	Clearwater	5810	5/13	91	35.1	49.4	--
Jackson Peak	Boise	7070	5/13	90	40.0	37.1	--
Lookout Pass	Coeur d'Alene	5140	5/16	54	25.6	32.2	--
Lost Lake	Clearwater	6110	5/13	124	49.8	61.8	--
Moores Creek Summit	Boise	6100	5/16	86	39.5	37.8	--
Shanghai Summit	Clearwater	4570	5/13	22	7.8	17.2	--
Trinity Mountain	Boise	7770	5/13	130	61.9	57.2	--
Vienna Mine	Salmon	8960	5/13	107	50.5	56.4	--
DELAYED MEASUREMENTS							
Bruno Creek	Squaw Creek	7920	1/21	44	13.3	--	--
Cold Springs	Portneuf	7000	2/2	49	15.4	--	--
Kruze Meadow	Clearwater	4780	1/31	23	6.3	9.6	--
Putnam	Portneuf	7220	2/2	47	14.1	--	--
Toponce	Portneuf	6160	2/2	39	11.6	--	--
Twitchell Canyon	Blackfoot	6300	2/1	39	11.9	15.2	--
Webb Creek	Clearwater	4720	1/31	23	6.1	10.5	--
Buck Meadow	Selway	5650	3/8	59	22.3	--	--
CORRECTIONS TO PREVIOUSLY PUBLISHED 1983 DATA							
Leadbelt	Big Lost	6700	3/7	45	15.0	6.4	8.6
Tex Creek	Willow	6650	3/3	33	10.5	11.5	8.5*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
(A) Aerial observation Water content estimated.

SNOTEL [1/]

Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulative) (inches)
Atlanta Summit	Boise	6/1	Not Available	52.4
Banner Summit	Payette	6/1	19.9	42.6
Bear Basin	Little Salmon	6/1	0.0	39.5
Bear Canyon	Big Lost	6/1	11.8	35.0
Bear Mountain	Clark Fork	6/1	46.4	81.0
Bear Saddle	Mann Creek	6/1	Not Available	44.3
Bennett Mountain	Canyon Creek	6/1	0.0	36.2
Big Creek Summit	Salmon	6/1	26.6	52.2
Bostetter Ranger Sta.	Trapper	6/1	11.9	21.5
Cozy Cove	Deadwood	6/1	0.0	35.6
Crab Creek	Camas-Beaver	6/1	7.5	31.7
Deadwood Summit	Deadwood	6/1	49.1	65.9
Dollarhide Summit	Big Wood	6/1	29.5	44.1
Elk Butte	Clearwater	6/1	17.6	52.3
Emigrant Summit	Bear	6/1	29.1	40.4
Franklin Basin	Cub	6/1	Not Available	43.0
Galena	Big Wood	6/1	12.8	29.6
Galena Summit	Big Wood	6/1	20.2	35.6
Garfield Ranger Sta.	Little Wood	6/1	0.0	25.0
Giveout	Montpelier	6/1	0.0	16.3
Graham Guard Sta.	Boise	6/1	0.0	35.0
Hilts Creek	Little Lost	6/1	11.8	23.3
Howell Canyon	Marsh Creek	6/1	14.8	41.8
Humboldt Gulch	Coeur d'Alene	6/1	0.0	44.0
Hyndman	Big Wood	6/1	0.0	27.2
Island Park	Henrys Fork	6/1	2.0	27.5
Jackson Peak	Boise	6/1	26.6	50.2
Lolo Pass	Lochsa	6/1	0.0	36.0
Lookout	Coeur d'Alene	6/1	Not Available	46.2
Lost Lake	Clearwater	6/1	46.3	67.9
Lost-Wood Divide	Big Lost	5/26	24.7	38.2
Magic Mountain	Rock Creek	6/1	2.6	33.2
Meadow Lake	Lemhi	6/1	17.6	26.8
Mill Creek Summit	Salmon	6/1	17.8	28.7
Moonshine	Little Lost	6/1	0.0	20.4
Moores Creek Summit	Boise	6/1	25.1	53.0
Moose Creek	North Fork Salmon	6/1	0.0	24.9
Morgan Creek	Salmon	6/1	0.0	21.1
Mosquito Ridge	Coeur d'Alene	6/1	13.2	52.3
Mountain Meadows	Selway	6/1	8.2	32.2
Mud Flat	Owyhee	5/31	8.4	32.0
Oxford Spring	Malad	6/1	0.0	28.8
Prairie	Boise	5/25	0.0	28.7
Savage Pass	Lochsa	5/30	7.8	32.0
Schweitzer Basin	Pend Oreille	5/30	42.6	54.5
Secesh Summit	Payette	5/25	39.5	Not Available
Shanghai Summit	Clearwater	6/1	0.0	43.5
Sheep Mountain	Willow	6/1	Not Available	24.0
Sherwin	St. Maries	6/1	0.0	36.5
Slug Creek Divide	Blackfoot	6/1	2.7	28.7
Somsen Ranch	Willow Creek	6/1	0.0	22.8
South Mountain	Jordan-Owyhee	6/1	0.0	39.0
Squaw Flat	Weiser	6/1	4.0	47.3
Stickney Mill	Big Lost	6/1	0.0	19.1
Sunset	Coeur d'Alene	6/1	Not Available	Not Available
Swede Peak	Little Wood	6/1	0.0	32.5
Trinity Mountain	Boise	6/1	53.1	63.6
Vienna Mine	Salmon	6/1	43.1	49.6
West Branch	Weiser	6/1	0.0	47.1
White Elephant	Henrys Fork	6/1	18.3	44.8
Wildhorse Divide	Portneuf	6/1	0.0	33.6

[1/] Data readings as reported by automated Snotel system.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S.MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

UNIVERSITY OF ILLINOIS-URBANA
3 0112 084234639